SONY®

VIDEOCASSETTE RECORDER

EVO-9850P

SERVICE MANUAL

Vol. 2



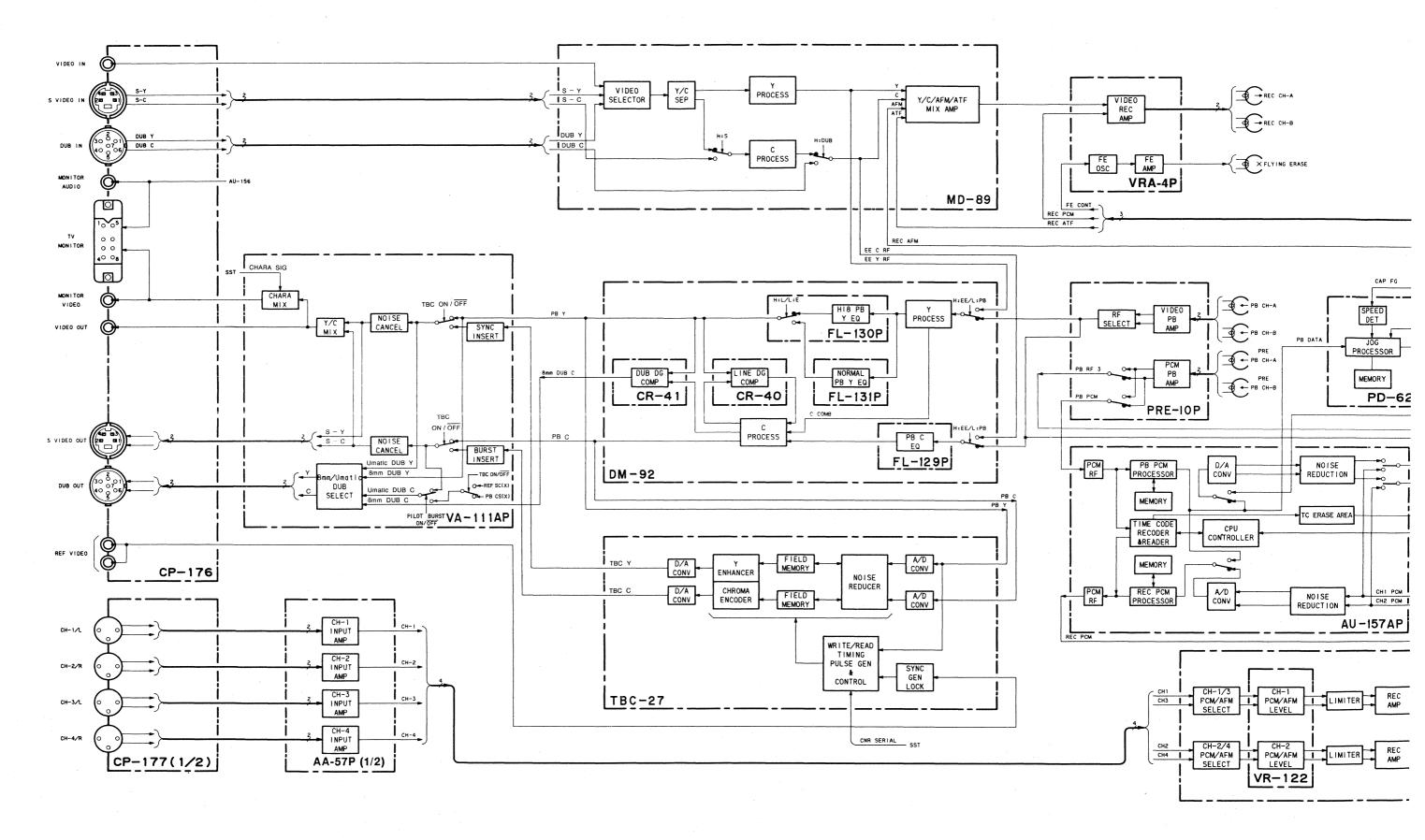
Hi8

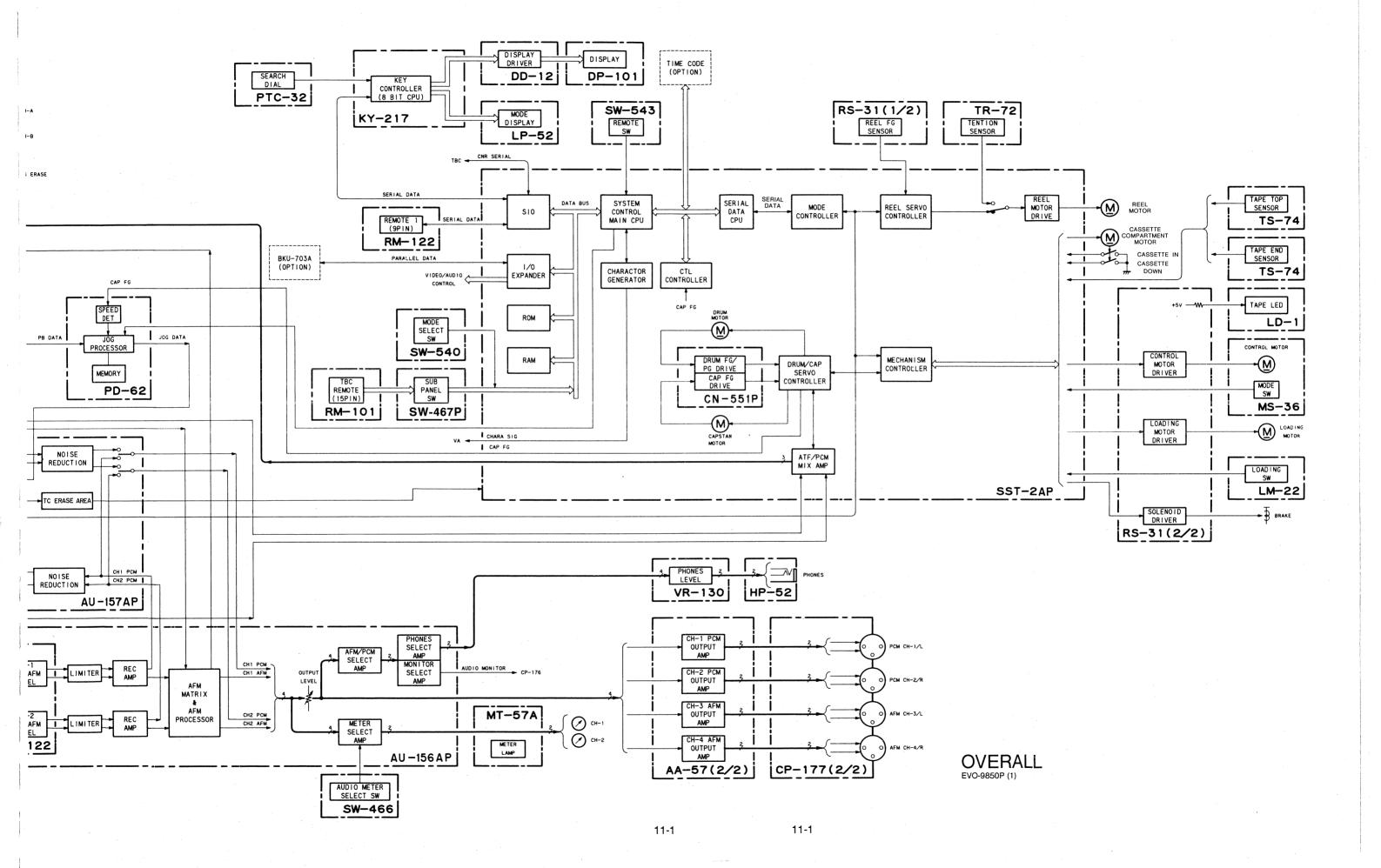
TABLE OF CONTENTS

οlι	ume-1	13.	BOARD LAYOUTS AND SCHEMATIC DIAGRAMS
1.	GENERAL DESCRIPTION		
Addition of the separation of	SERVICE INFORMATION		Circuit Function of the Printed Circuit Board 13-1 Setting of Oscilloscope for Measurement 13-1
3,	PERIODIC CHECK AND MAINTENANCE		VIDEO
	REPLACEMENT OF MAJOR PARTS		MD-89
-	TORQUE AND BACK TENSION ALIGNMENT		VRA-4P
6.	TAPE RUN ALIGNMENT		FL-129P —
	POWER SUPPLY CONFIRMATION		FL-131P
8.	SERVO SYSTEM ALIGNMENT		CR-40 ————————————————————————————————————
•	AUDIO SIGNAL SYSTEM ALIGNMENT		TBC-27
10.	VIDEO SIGNAL SYSTEM ALIGNMENT		CP-176
	ume-2		AUDIO AU-156AP
0.	unic-2		AU-157AP
11.	BLOCK DIAGRAM		AA-57P
	OVERALL11-1		PD-6213-41 SERVO & SYSTEM CONTROL
:	VIDEO		SST-2AP
	Rec Video Processor11-2		CN-551P
	PB Video Processor11-3		RS-31————————————————————————————————————
	Time Base Corrector		KY-217
Į.	Video Interface/Sync, Burst Insert11-5 AUDIO		LP-52
ì	AFM Audio Processor11-6		PTC-32
	PCM Audio Processor11-7		SW-467P13-67
,	SERVO & SYSTEM CONTROL		POWER
17 1.4440001	System Control		SOPS-103113-68
	Drum/Capstan/ATF Servo Contrtole11-9 Reel Servo Control & Mechanism Control11-10		OTHER
	Reel Servo Control & Mechanishi Control11-10		MB-356P13-70
2	SEMICONDUCTOR PIN ASSIGNMENTS		FRAME WIRING (1/2)
			FRAME WIRING (1/2)— AC-121AP—————
	Semiconductor Index		CP-177———
	Transistor		DC-57P
)	Diode		HP-52
1			MT-57A
			SW-466
j			VR-122 VR-130

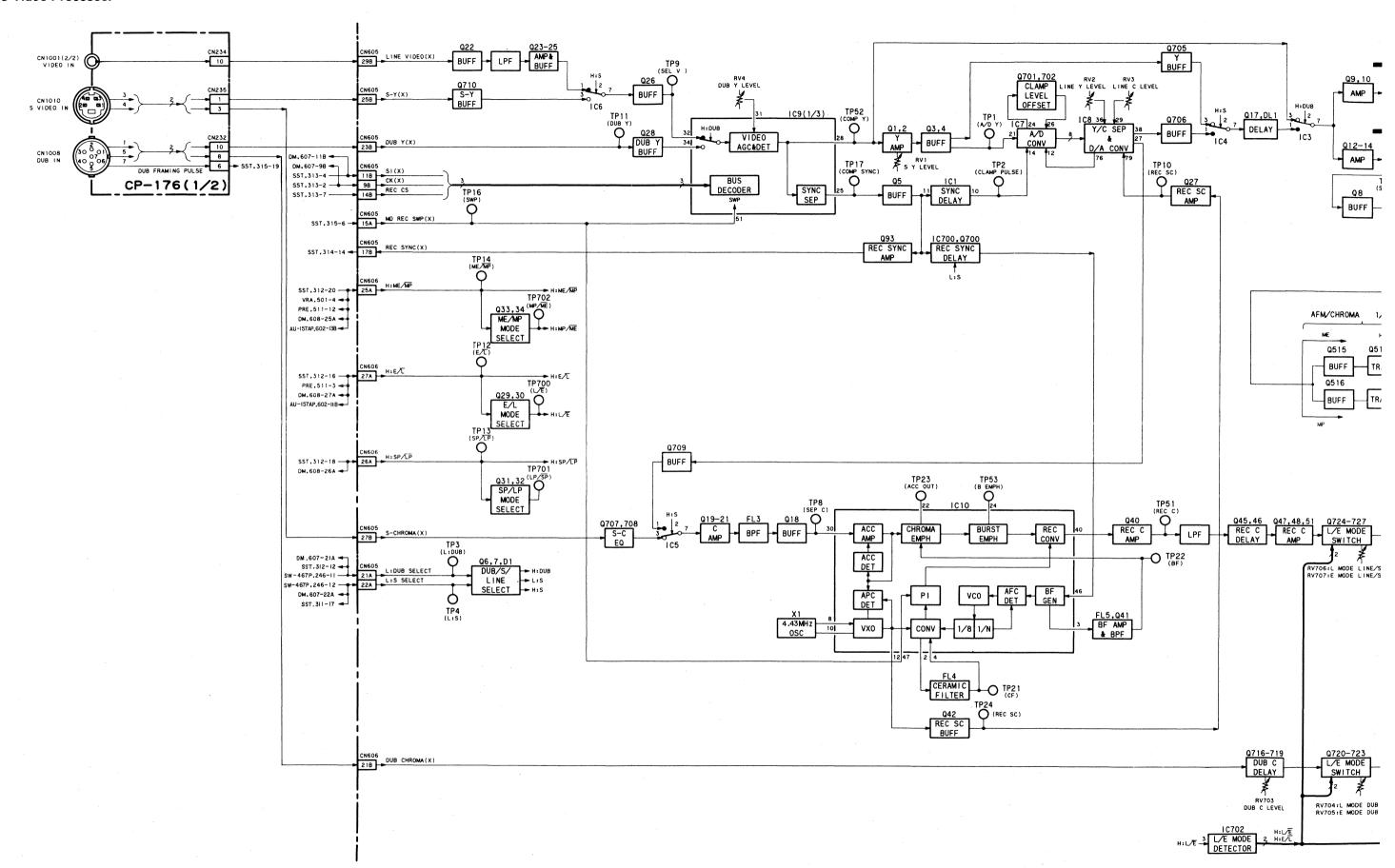
FRAME WIRING (2/2)—	
RM-101	
RM-122	
SW-540	.13-78
SW-543 ————	
TR-72	
TS-74 ————	
14. SPARE PARTS AND FIXTURES	
14-1. Parts Information	. 14-1
14-2. Exploded Views	
Reel Table Block	.14-3
Threading Ring and Tape Path Blocks	.14-4
Head Drum and Threading Control Blocks .	.14-5
Mechanism Control Block	.14-6
Cassette Up Compartment Block (1)	.14-7
Cassette Up Compartment Block (2)	.14-8
Function Control Chassis Block	.14-9
Connector Panel Block	.14-10
Main Chassis Block	
Ornamental Panel Block	
Card Rack Block	.14-13
14-3. Electrical Parts List	
14-4. Packing Materials and Accessories	
14-5 Optional Fixtures	

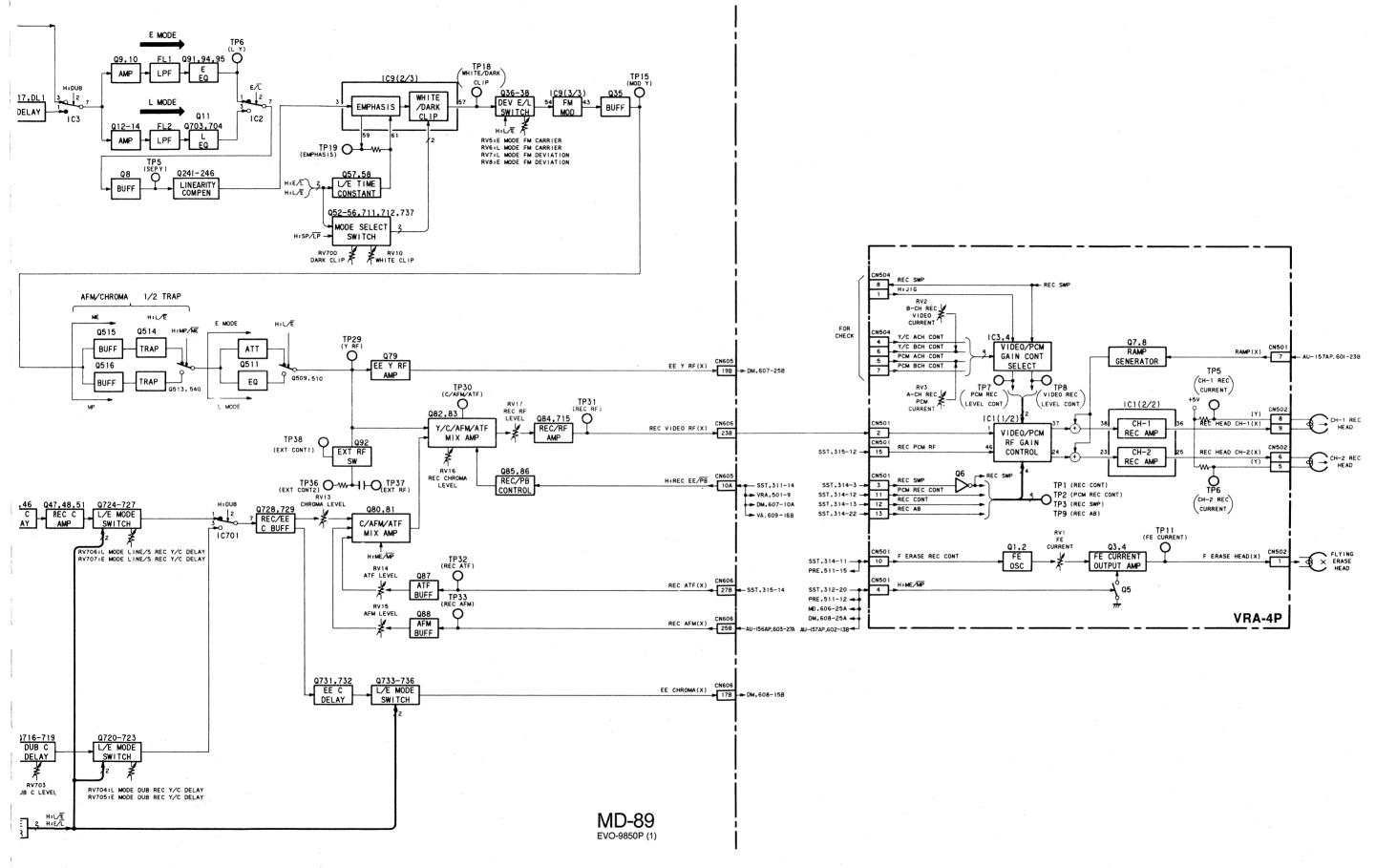
SECTION 11 BLOCK DIAGRAMS



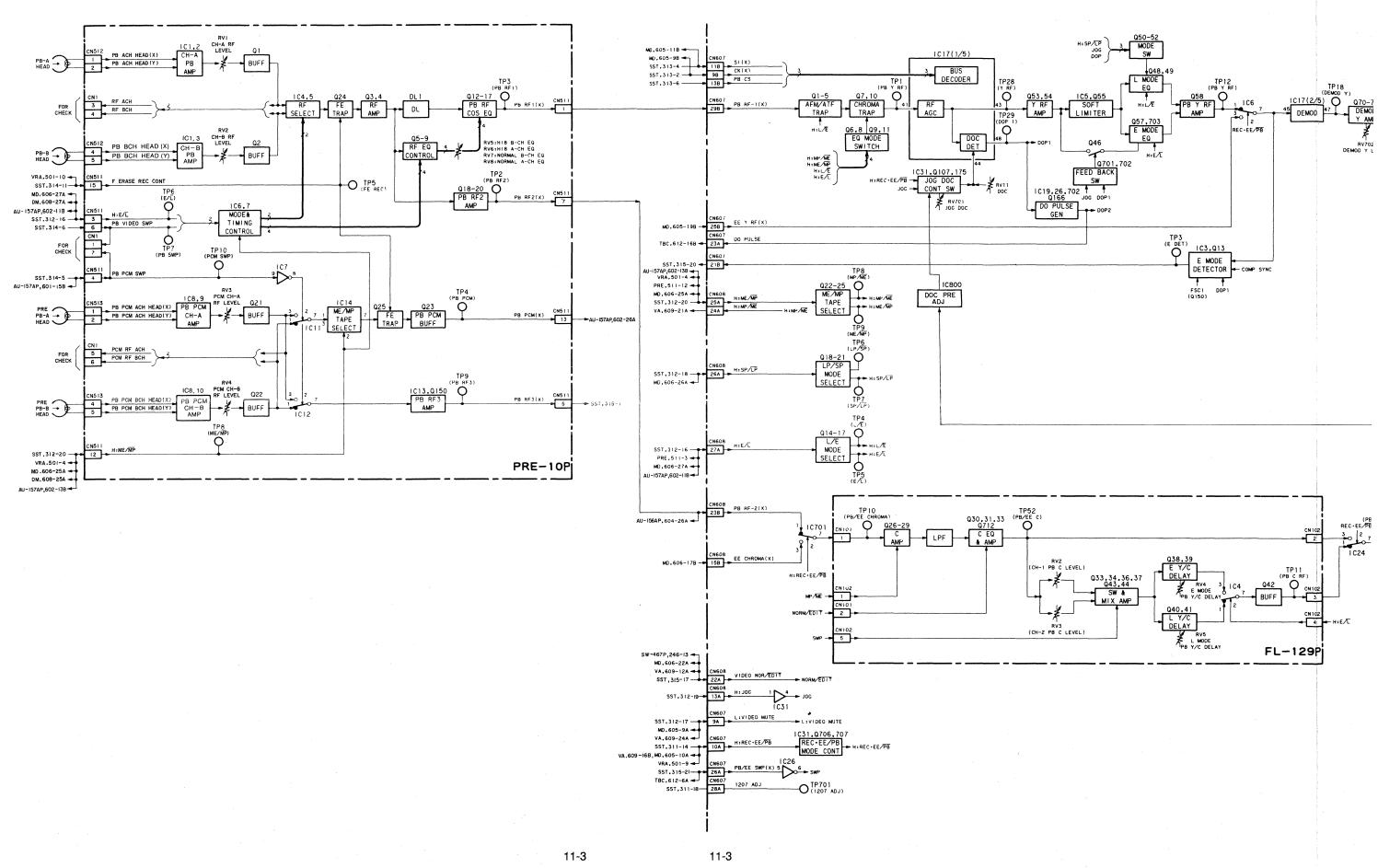


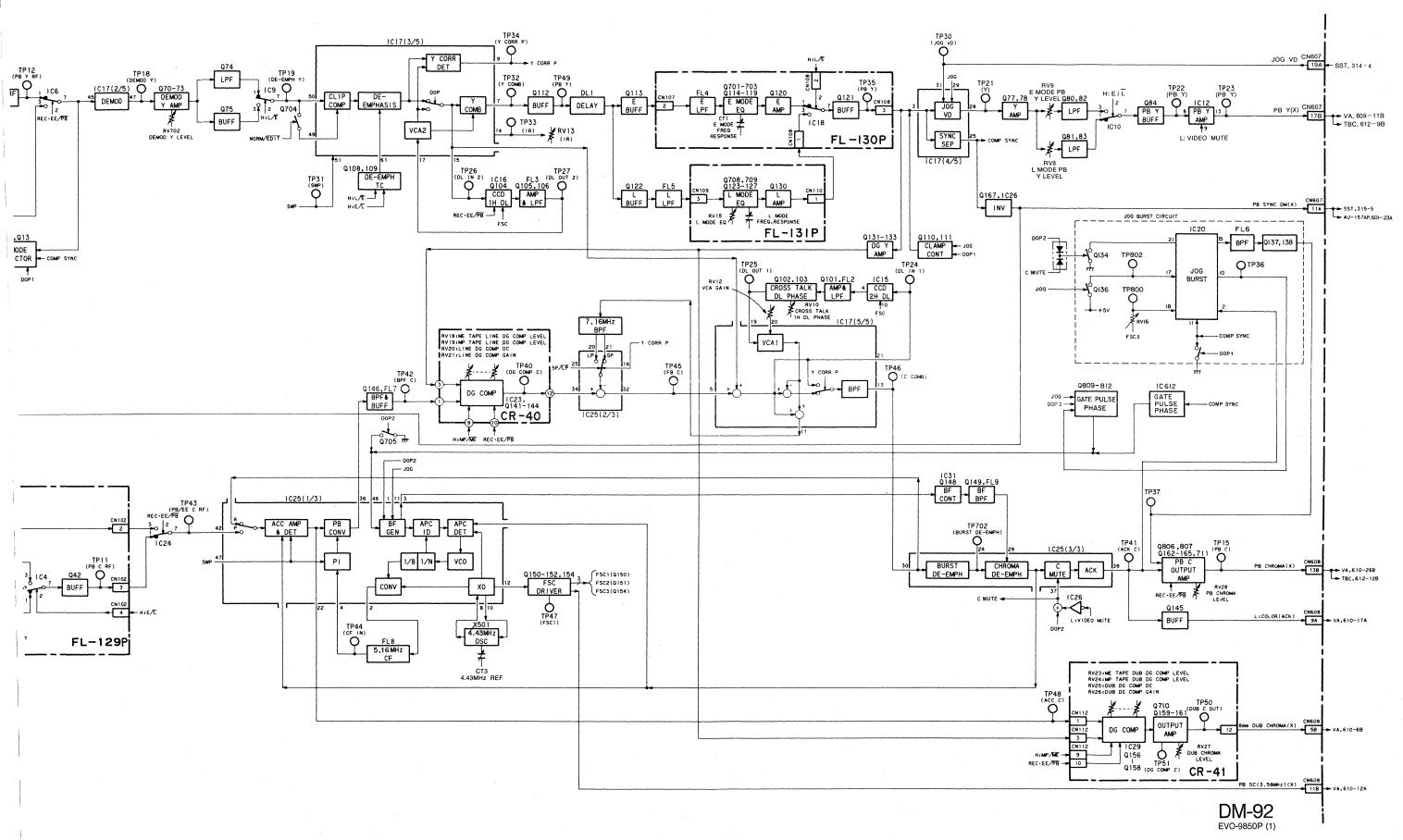
REC Video Processor

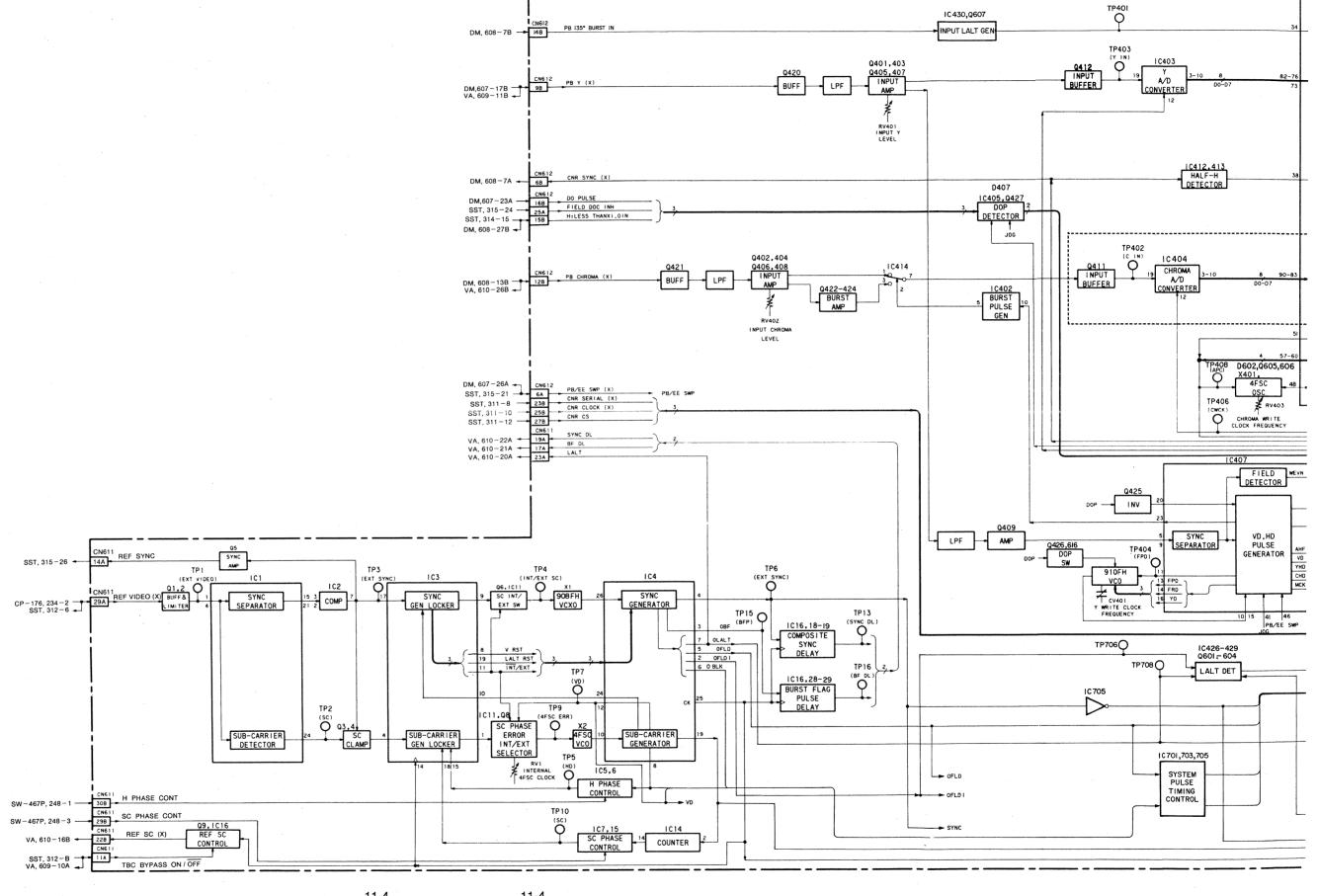


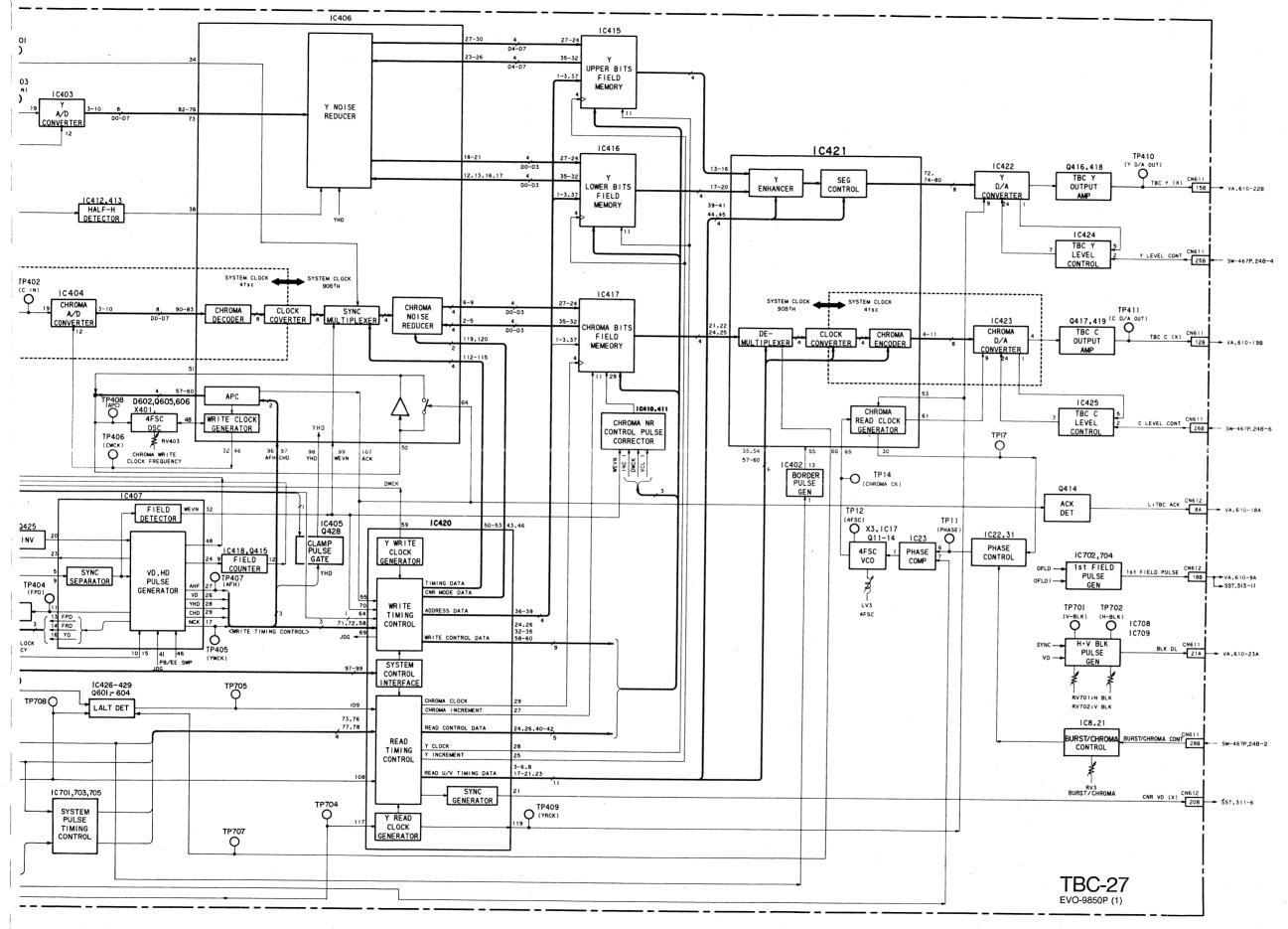


PB Video Processor

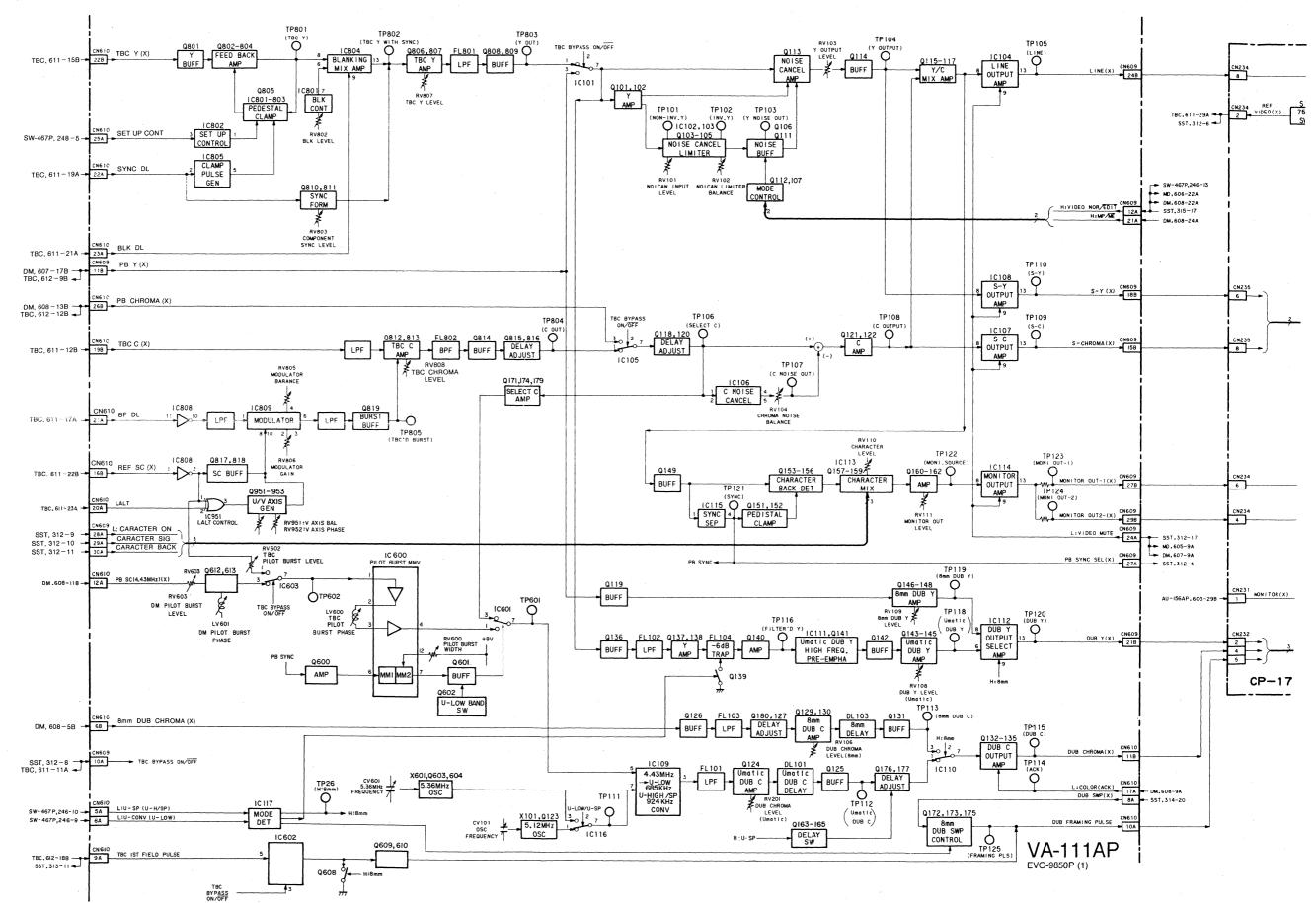






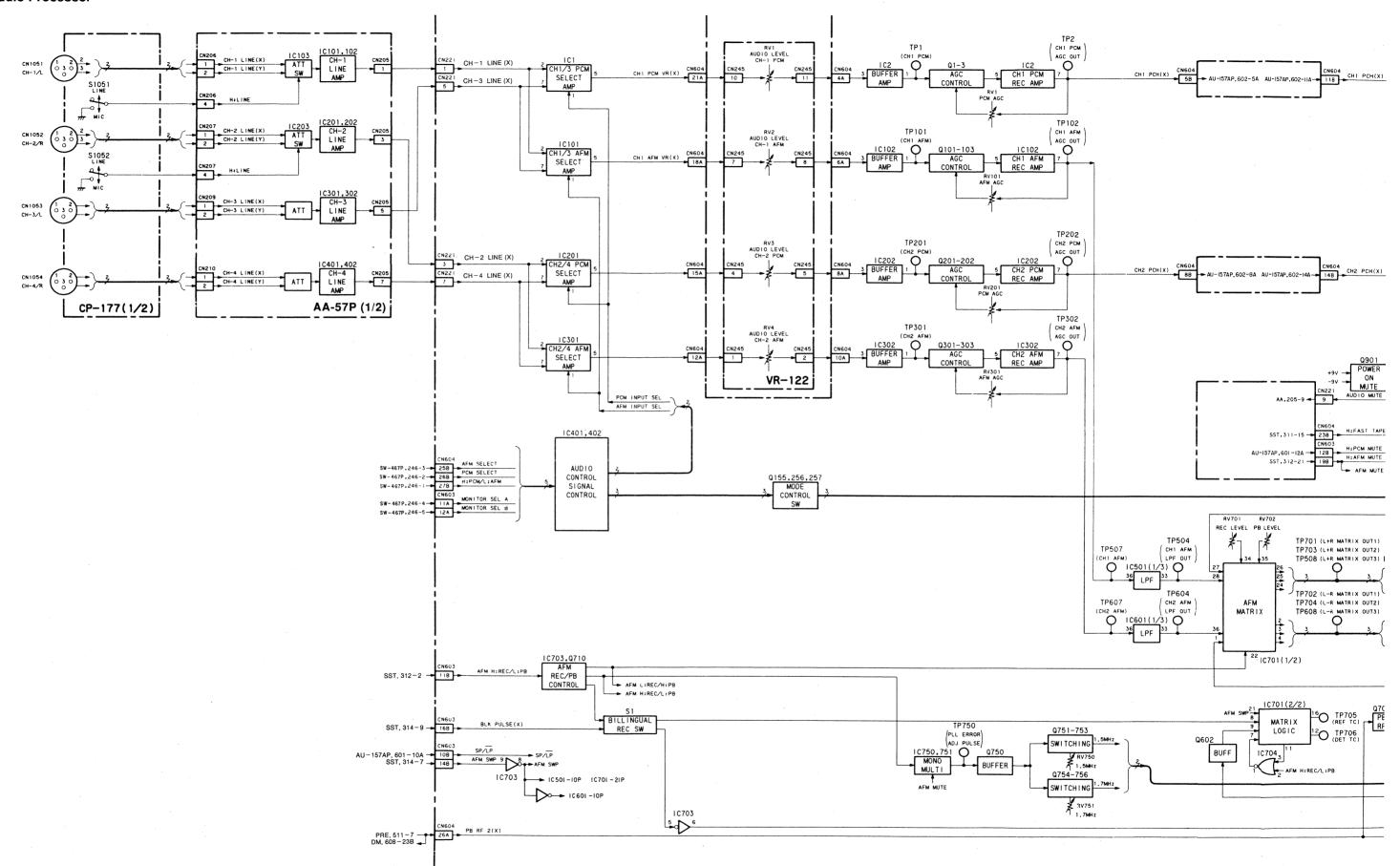


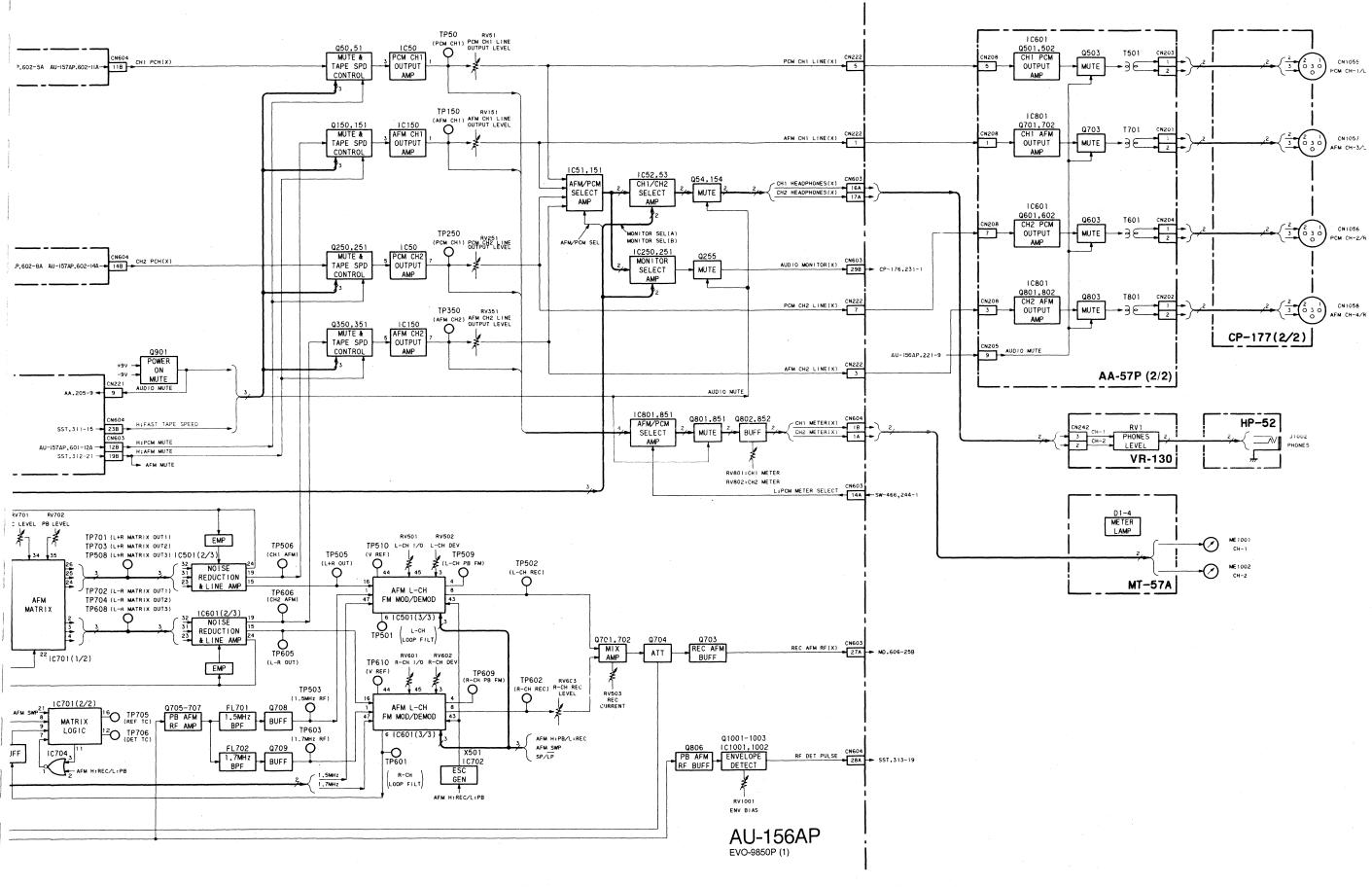
Video Interface/Sync, Burst Insert



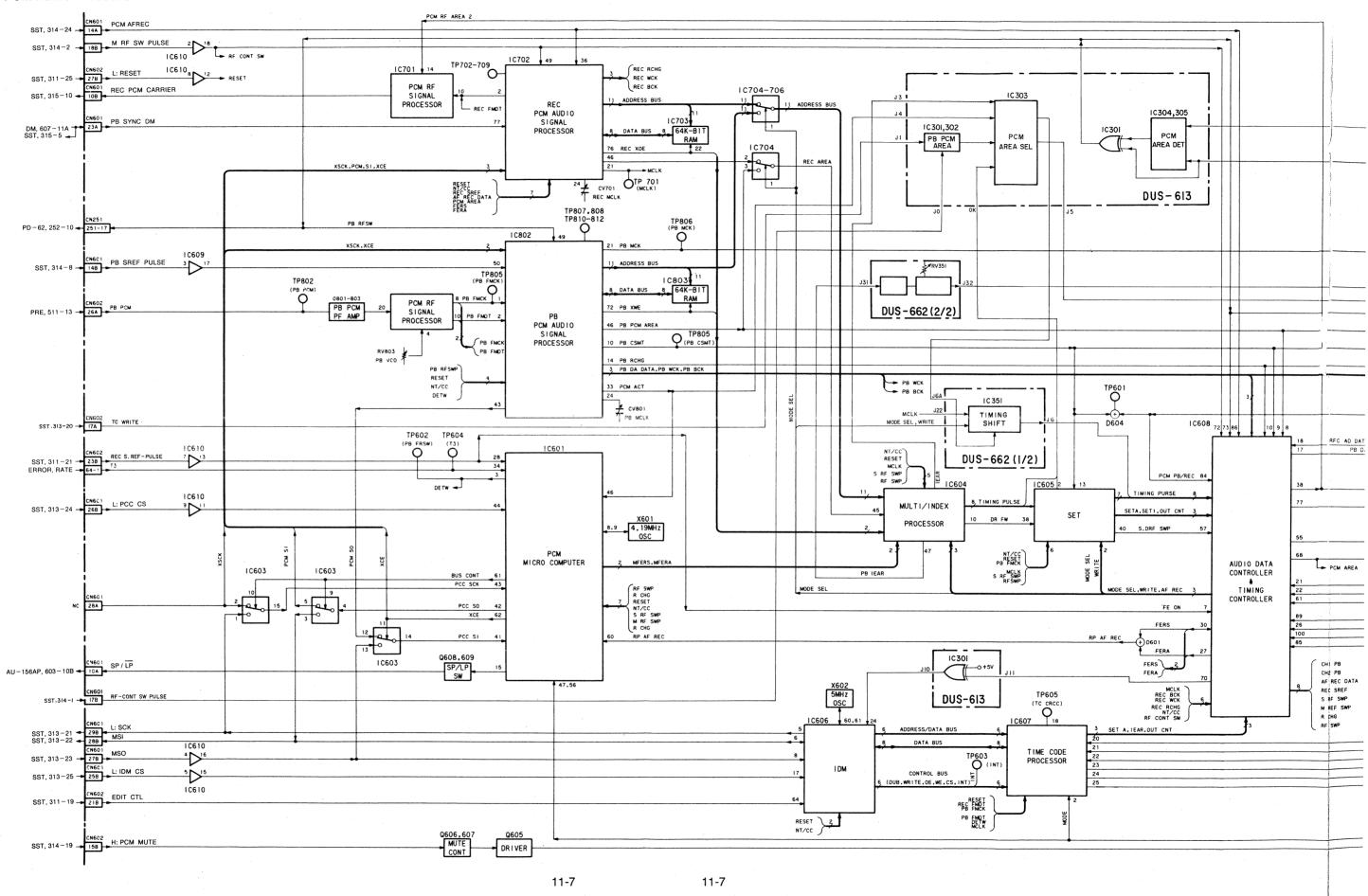
VIDEO VIDEO

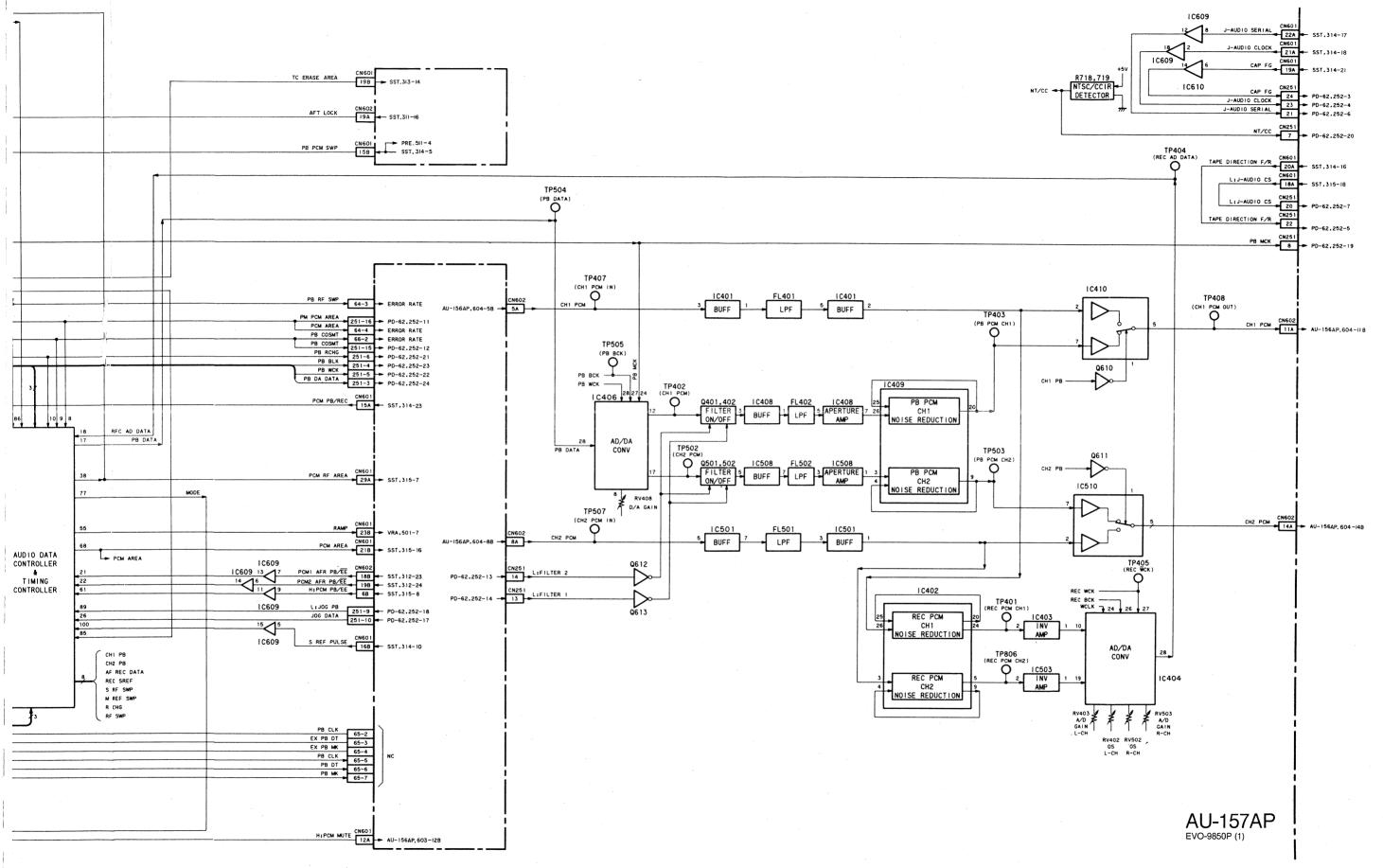
AFM Audio Processor

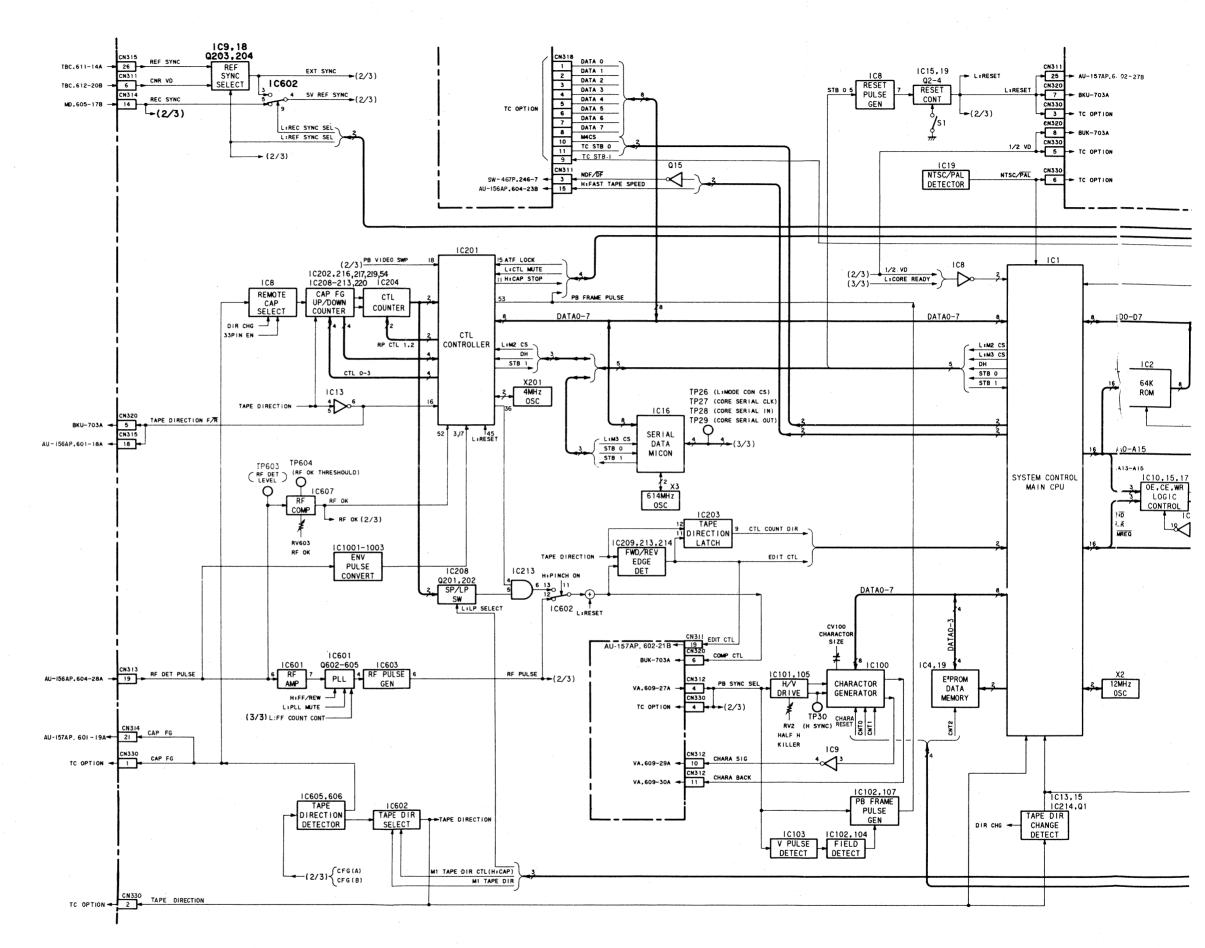


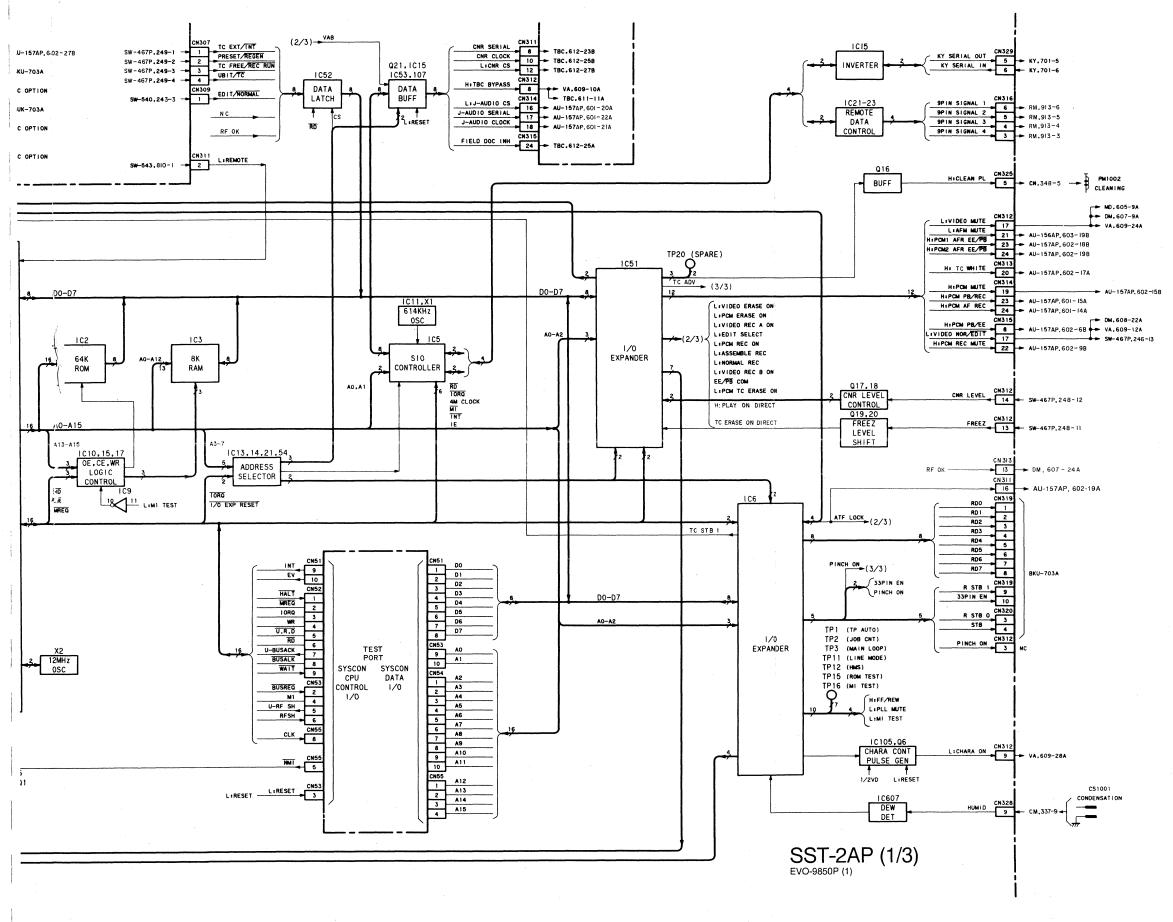


PCM Audio Processor

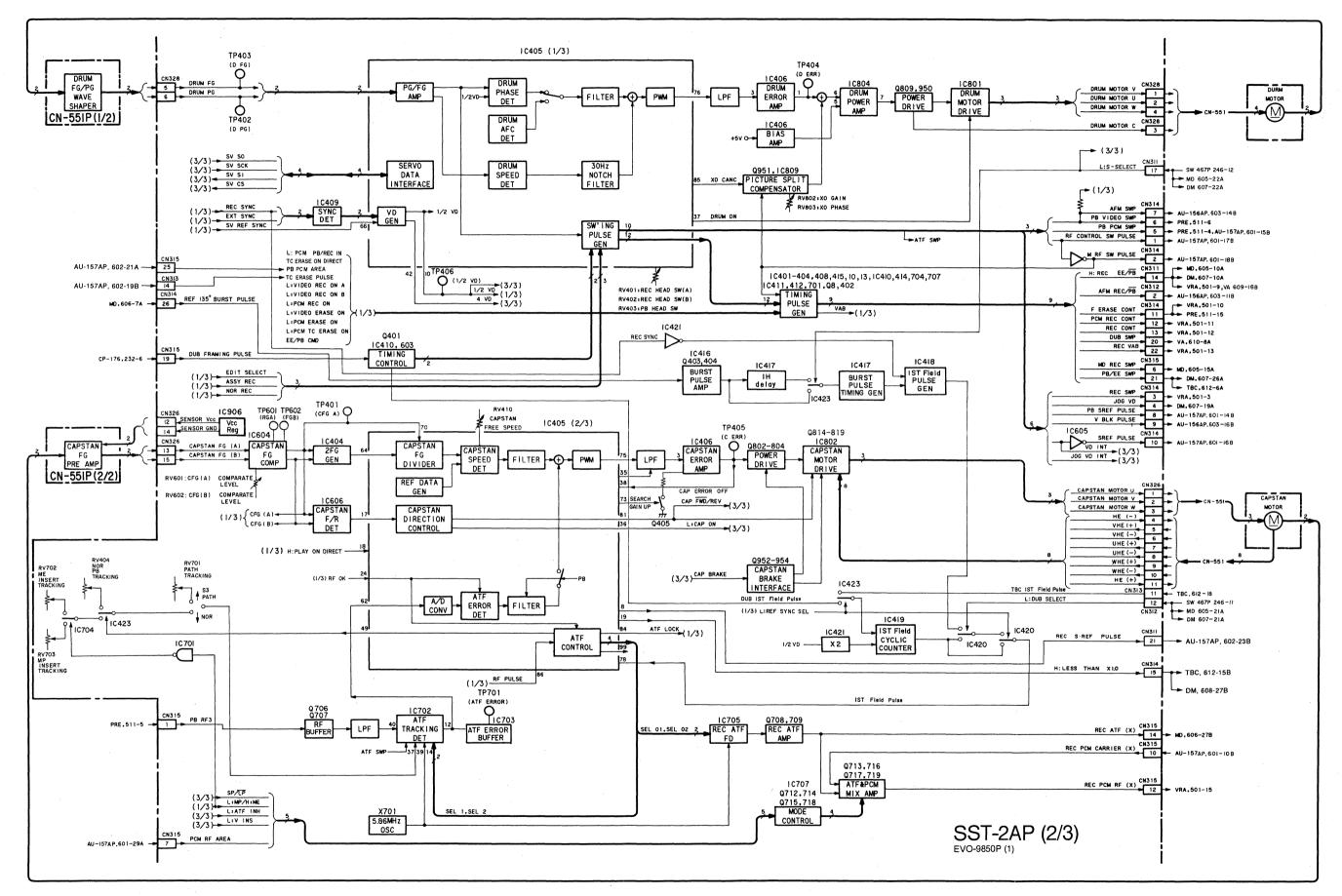


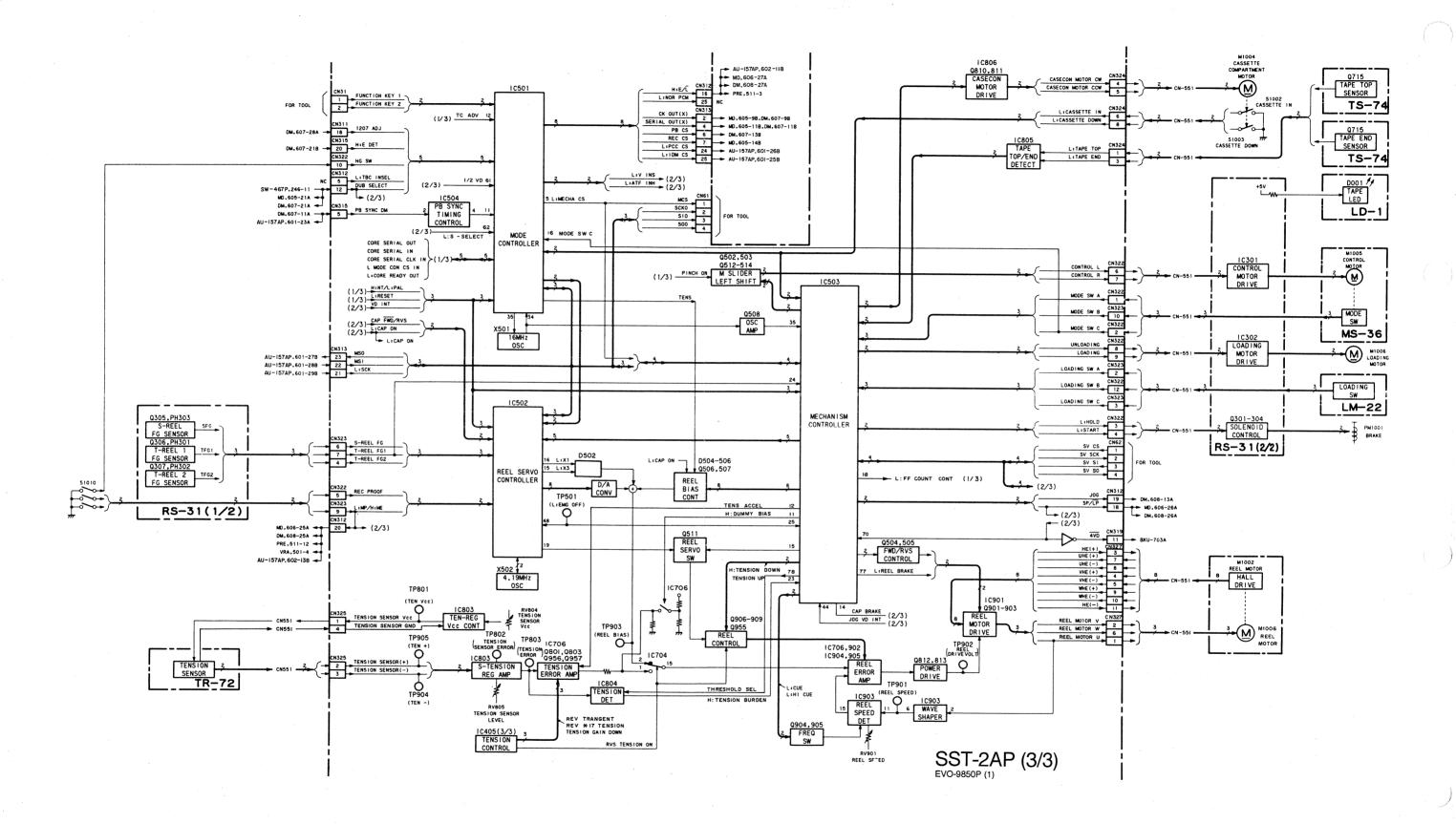






11-8





SECTION 12 SEMICONDUCTOR PIN ASSIGNMENTS

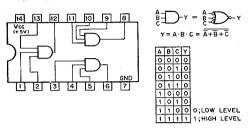
ICs, transistors and diodes whoses functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

IC PAGE	IC	PAGE	IC	PAGE
74F11SJ12-3	CXP80116-871C	12-30	SN74HC00ANS	3 12-37
74F32SJ12-3	CXP80624-445C	12-32	SN74HC02ANS	S 12-38
			SN74HC04ANS	3 12-38
BA40112-3	HD14053BPF	12-31	SN74HC08ANS	3 12-38
BA6303F12-3			SN74HC109AN	IS12-38
BX104012-3	LM2903PS	12-23	SN74HC139AN	IS 12-38
BX126212-47	LM339D			3 12-39
BX1262L12-47			SN74HC157AN	IS 12-39
	M50747H-161FF	12-34	SN74HC160NS	S 12-39
CF77309FR12-4	M5201FP			IS12-39
CX2009912-4	M51953BL			IS12-39
CX2010212-4	M54516F		* *	IS12-40
CX20115A12-5	M54516P			IS12-40
CX2015812-4	M5F7905L		· · · · · · · · · · · · · · · · · · ·	S 12-40
CX23065A12-4	MB87647			3 12-40
CX87712-5	MB88201HPF-5			12-40
CXA1077M12-5	MB88303			IS12-40
CXA1106M12-5	MC10H116M			IS 12-41
CXA1203N12-47	MC14013BF			3 12-40
CXA1204Q12-6	MC14017BF			5 12-41
CXA1207AR12-6	MC14049UBF			
CXA1208R12-8	MC14052BF		TA7357AP	12-41
CXA1234AR12-9	MC14053BF			12-41
CXA1488R12-10	MC14066BF			12-41
CXA1536Q12-11	MC14069UBF			12-41
CXD1066Q-Z12-12	MC14538BF			12-42
CXD1077M12-13	MC1496M			12-42
CXD1095Q12-14	MC34184M			F12-42
CXD1095Q12-14	MC3486N			F12-42
CXD1176Q12-16	MC3487N			12-41
CXD1208Q12-14	WOO40714			12-42
CXD1216M12-14	NJM2233BM	12-36		12-46
CXD1217M12-18	NJM4556M-A			12-42
CXD1226Q12-18	NJM4558M			12-42
	NJM4562M			12-43
CXD1227Q12-22 CXD1228Q12-24	NJM78L05A			3F-612-44
	NJM79L05A			0JL 12-43
CXD1229Q12-17 CXD2105AQ12-26	NJW/9LUSA	12-37	11413270312-21	JUL 12-43
CXD2105AQ12-26	RC3414M	12.27	UPC1037HA	12-43
CXD2107M12-19	RC4556MA			12-43
CXD8369AQ12-49	RC4558M			12-43
CXD8371M12-49	RC4560M			12-43
	RC7805FA			12-23
CXK1009P12-21	RC78L05A			12-43
CXK1206AM12-27				12-23
CXK5864BM-12L12-25	RC79L05A	12-31		12-45
CXL1506M12-50	0.0000040	40.07		12-45
CXL5502M12-19	S-80230AG		UPD/564US	12-46
CXP5084H-645Q12-28	S-81230AG		70 40 4000000	12-52
CXP80116-870Q12-30	SN74ALS163BN	1512-38	Z84C4306FEC	12-52

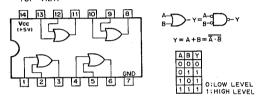
	•		
TRANSISTOR PAGE		DIODE	PAGE
2SA1122D12-53		02CZ??	10 E4
2SA1162G12-53	•	0202 P	12-54
2SA117512-53		10E-2	10 54
		105-2	12-54
2SA122612-53		400005	40.54
2SA138512-53		1\$2835	
2\$A157612-53		1S2837	
2SA161112-53		1SS119	
2SA81212-53		1SS120	
		1SS123	
2SB111412-53		1SS226	
2SB112112-53		1SS99	12-54
2SB118812-53			
2SB84112-53		1T32	12-54
		1T33C	12-54
2SC162312-53			
2SC182612-53		D10LC20U	12-54
2SC222312-53		D10SC4M	12-54
2SC271212-53		D3SB60	12-54
2SC2715Y 12-53		DAN202U	12-54
2SC3326N12-53		DAN212K	12-54
2SC351812-53		DAP202U	12-54
2SC408112-53			
2SC417712-53		E10DS2	12-54
2SC417812-53			
2SC4213A12-53		FC54M	12-54
2SD108112-53		GL-5HD5	12-54
2SD130912-53			
2SD161412-53		LB402VK	12-54
2SD209612-53		LT-9200H	12-54
2SD992A12-53	•	LT-9200N	12-54
2SK9412-53		MA-159	12-54
DTA124EU 12-53		RD??M	12-54
DTA124XK12-53			
DTA143XS12-53		TLG124A	12-54
DTA144EU 12-53		TLG256	12-54
DTC114ES12-53		TLUG144	12-54
DTC124EU12-53		TLUG154	12-54
DTC144EK12-53		TLUY144	
DTC144EU12-53		TLY256	
FMS1FE12-53			
FMW1 12-53			

The circuit diagram of each IC is obbtained from the IC data book published by the manufacturer.

74F11SJ (NS) FLAT PACKAGE TTL 3-INPUT POSITIVE-AND GATE -- TOP VIEW --



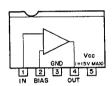
74F32SJ (NS) FLAT PACKAGE TTL 2-INPUT POSITIVE-OR GATE - TOP VIEW -



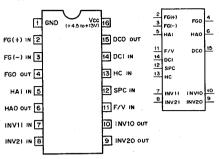
BA401 (ROHM)

RF AMPLIFIER

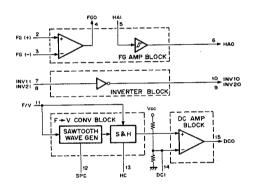
- SIDE VIEW -



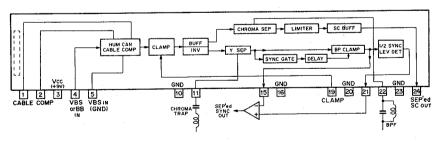
BA6303F (ROHM) FLAT PACKAGE FG SYSTEM SPEED SERVO CONTROLLER - TOP VIEW -



DCI DC AMP FEED BACK INPUT DCO AMP OUTPUT TEG AMP OUTPUT TEG AMP OUTPUT TEG AMP INPUT TEG AMP INPUT TEG AMP INPUT TEG AMP INPUT TEG AMP TO THE AMP TEG AMP OUTPUT TEG AMP O

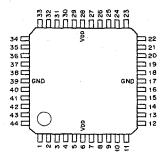


BX1040 (SONY) SYNC SEPARATOR - REAR VIEW -



CF77309FR (TI)

C-MOS TIMING GENERATOR FOR 8mm VTR ADDRESS SYSTEM – TOP VIEW –

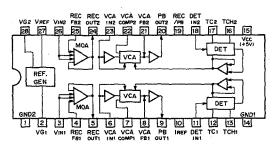


 $(V_{00} = + 5V)$

PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGANL	PIN NO.	1/0	SYGNAL	PIN NO.	1/0	SYGNAL
1_	_	IEAR	12		CSMT	23	0	LCLK	34	1	RAMP
2	0	SIEAR	13	1	CRCMON1	24	0	SW POS	35	0	SRAMP
3	7	RFMDZ	14	1	FMCK	25	_	CAM/DECK	36	T	RAREA
4	0	SRFMD	15	1	P1/P2	26	7	MODE	37	0	SRARE
5	_	RFAR	16	1	AUTO	27	T	WRITE	38	-	DRSWP
6	_	Von	17	-	GND	28	-	Voo	39	-	GND
7	0	SRFAR	18	T	MCLK1	29	T	RESET	40	0	SIDRSWP
8	_	FERA	19	0	MCLK2	30	T	RFSWP	41	Т	MDAR
9	0	SFERA	20	1	SREF	31	0	OUT CNT	42	0	SMDAR
10	_	FERS	21	0	PCO	32	0	SET 1	43	. 1	TEST 1
11	0	SFERS	22	ı	NTSC/PAL	33	0	SET1010	44	1	TEST 2

CX20099 (SONY) FLAT PACKAGE

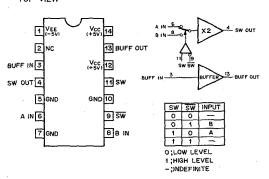
VOLTAGE CONTROLLED AMP/DETECTOR/MAIN OPERATIONAL AMP - TOP VIEW -



DET ; DETECTOR
TC ; TIME CONSTANT
TCH; TIME CONSTANT HOLD

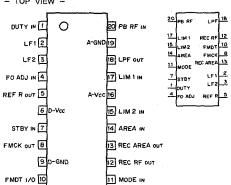
VCA: VOLTAGE CONTROLLED AMP

CX20158 (SONY) FLAT PACKAGE VIDEO SWITCHER AND BUFFER - TOP VIEW -



CX20102 (SONY) FLAT PACKAGE

PCM-RF SIGNAL PROCESSOR - TOP VIEW --



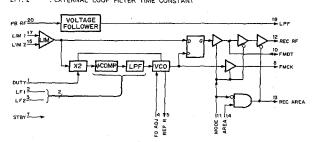
OPERATION STBY | MODE | AREA POWER SAVE

INPUT
AREA
DUTY
FO ADJ
LIM 1.2
MODE
PB RF
STBY AREA INPUT (C MOS LEVEL)
SAMPLING PHASE FINE ADJUSTMENT
VOC FREE RUN FREQUENCY ADJUSTMENT
LIMITER INPUT
REC/PB SELECTOR (C MOS LEVEL)
VOLTAGE FOLLOWER INPUT
POWER SAVE CONTROL INPUT
L: STAND BY (C MOS LEVEL)

CLOCK OUTPUT
VOLTAGE FOLLOWER OUTPUT
REC AREA OUTPUT (C MOS LEVEL)
REC MODE RF OUTPUT (C MOS LEVEL)
RESISTOR EXTERNAL ATTACHED VCO

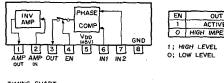
INPUT/OUTPUT FMDT ; DATA INPUT/OUTPUT

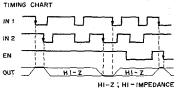
OTHER LF1, 2 : EXTERNAL LOOP FILTER TIME CONSTANT



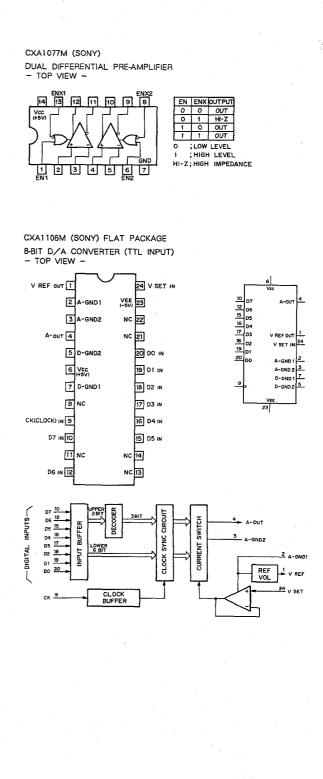
CX23065A (SONY)

N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER - PRINTED SIDE VIEW -



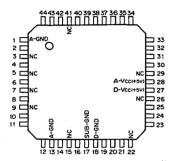


CX20115A (SONY) FLAT PACKAGE MOTOR SENSE AMP - TOP VIEW -14 CAP FG INI CAP AMP OUT 16 CAP FG IN2 CAP FG OUT 2 11 CAP LIM IN CAP FG OUT 1 0 DRUM COM 16 CAP FG IN2 DRUM FG IN 2 NC 15 DRUM FG OUT 3 14 CAP FG IN Vcc 13 DRUM PG IN 4 5 PEAK HOLD CE 11 CAP LIM IN DRUM PG OUT 7 10 CAP FG OUT 1 BGND 9 CAP FG OUT 2 CAPSTAN FG 2 LOGIC CAP FG IN2 16 CX877 (SONY) MOTOR DRIVER - TOP VIEW -V1 :N 🗓 16 V16 OUT V2 IN 2 15 V15 OUT V3 IN 3 14 V14 OUT V4 IN 4 13 V13 OUT V5 IN 5 12 V12 OUT V6 IN 6 11 V11 OUT V1, V2 V11, V16 V3, V4 V12, V15; V PHASE TEST 7 10 VREF 8 VCC (+12v) V5,V6 V13,V14 ; W PHASE TIMING CHART



CXA1204Q (SONY) FLAT PACKAGE

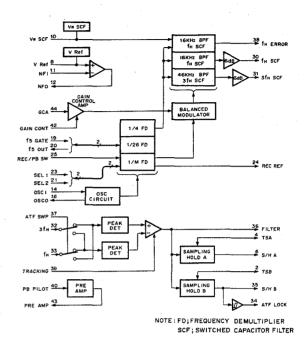
CMOS ATF (Automatic Track Finding) FOR 8mm VTR - TOP VIEW -



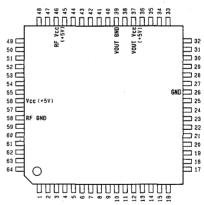
	(A - Vcc = D - Vcc = + 5\											
PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL				
1	-	A-GND	16	0	osco	31	0	3fn SCF				
2	ı	TSB	17	-	SUB-GND	32	_	31н				
3	_	NC	18	1	D-GND	33	_	1 _H				
4	_	TSA	19	-	fs GATE	34	0	ATF LOCK				
5	-	NC	20	0	fs OUT	35	0	S/H B				
6	0	S/H A	21	-	SEL2	36	0	FILTER				
7	-	NC .	22	_	NC	37		ATF SWP				
8	-	VREF	23	1	SEL1	38	0	1H ERROR				
9	-	NC	24	0	REC REF	39	- 1	TRACKING				
10	1	VR SCF	25	1	REC/PB SW	40	1	PB PILOT				
11	- 1	NFI	26	-	NC	41	1	NC				
12	0	NFO	27		D-Vcc	42	-	GAIN CONT				
13	-	A-GND	28	-	A-Vcc	43	0	PRE AMP				
14	1	OSCI	29	-	NC	44		GCA				
15		NC	30	0	fH SCF							

44 GCA fHSCF 30 42 GAIN CONT 3fH SCF 31 10 VA SCF 1H ERROR 39 18 GATE f5 OUT 20 23 SEL 1 21 SEL 2 REC REF 24	INPUT 31H ATF SWP 14 15 GAIN CONT GCA NFI OSCI	: 47KHz BPF SIGNAL : ATF SWITCHING PULSE : 16KHz BPF SIGNAL : 5 OUTPUT CONTROL : AGC CONTROL : AGC CONTROL : AGC MPUT SIGNAL : OP AMP NEGATIVE PHASE : OSCILLATOR FOR FREQUENCY DEMULTIPLIER
25 REC/PB SW OSCI 19. 33 JH OSCO 15. 32 JSh FILTER 36. 35 JTRACKING S/H B JS. 4 TSA AFFLOCK 34. 2 JTSB BV Ref 10 NFO 12. 40 PB PILOT PRE AMP 43.	34h SCF ATF LOCK # ERROR # SCF FILTER f5 OUT NFO OSCO PRE AMP REC REF	PB PILOT SIGNAL SWITCH CONTROL SIGNAL (L: REC/H: PB) REC PILOT SIGNAL TRACKING ADJUSTMENT SAMPLE HOLD TIMING PULSE REFERENCE VOLTAGE FOR ANALOG AMP REFERENCE VOLTAGE FOR SWITCHED CAPACITOR FILTER 47KHz SWITCHED CAPACITOR FILTER ATE LOCK DETECT SIGNAL 16KHz ERROR PHASE SIGNAL 16KHz SWITCHED CAPACITOR FILTER PEAK DETECT SIGNAL 1,726xOSC OUTPUT (228KHz) OP AMP POSITIVE PHASE OSCILLATOR FOR FREQUENCY DEMULTIPLIER PB PILOT SIGNAL AMP REC PILOT METERENCE SIGNAL SAMPLEY FOR SIGNAL SAMPLEY HOLD PULSE

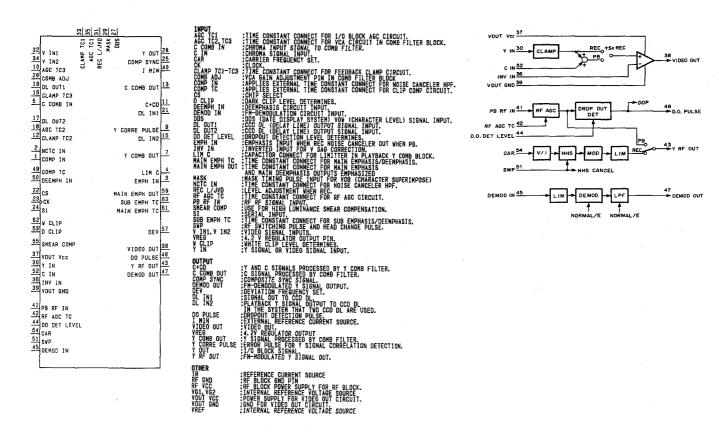
INF	יטי	DIVIDING						
SEL1	SEL2	RATIO						
0	0	1/40						
0	1	1/50 1/36						
1	0							
1	1	1/58						
: LOW	LEVEL	(up to 0.5V)						

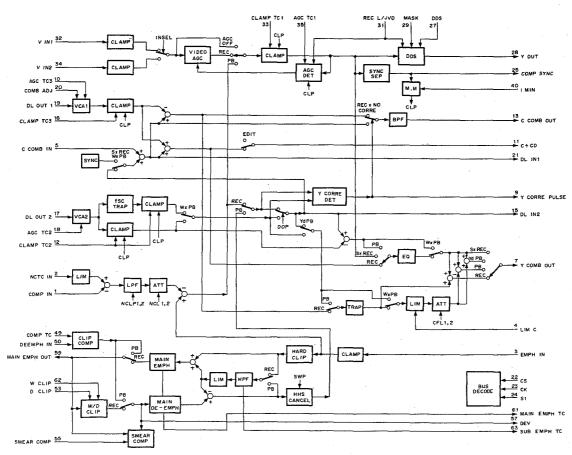


CXA1207AR (SONY) 8mm VTR LUMINANCE SIGNAL PROCESSING - TOP VIEW --



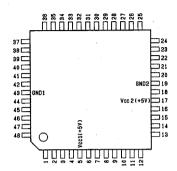
											(Ycc =+5V)
Pia No	1/0	SIGNAL	Pia No	1/0	SIGNAL	Pia No	1/0	SIGNAL	Pia No	1/0	SIGNAL
1	I	COMP IN	17	1	DL OUT2	33	1	CLAMP TC1	49	1	COMP TC
2	I	NCTC IN	18	1	AGC TC2	34	I	V IN2	50	I	DEEMPH IN
3	I	EMPH IN	19	I	DL OUT1	35	I	AGC TC1	51	I	SWP
4	I	LIM C	20	I	COMB ADJ	36	I	INV IN	52	ī	C IN
5	I	C COMB IN	21	0	DL IN1	37	-	VOUT Vcc	53	I	D CLIP
6	-	VRE6	22	I	CS	38	0	VIDEO OUT	54	I	CAR
7	0	Y COMB OUT	23	I	CK	39	-	VOUT SND	55	1	SMEAR COMP
8	-	IR	24	ī	SI	40	1	I HIN	56	-	Ycc
9	0	Y CORRE PULSE	25	Ī	COMP SYNC	41	1	PB RF IN	57	1	DEV
10	1	AGC TC3	26	-	GND	42	ı	RF AGC TC	58	-	RF GND
1i	0	C+CD	27	1	DDS	43	0	Y RF OUT	59	0	MAIN EMPH OL
12	I	CLAMP TC2	28	0	Y OUT	44	I	DO DET LEVEL	60	-	V61
13	0	C COMB OUT	29	1	HASK -	45	Ī	DEMOD IN	61	0	MAIN EMPH T
14	-	VREF	30	Ī	Y IN	46	-	RF Vcc	62	1	W CLIP
15	O	DL IN2	31	1	REC L/JVD	47	0	DEMOD OUT	63	0	SUB EMPH TO
16	I	CLAMP TC3	32	I	V IN1	48	0	DO PULSE	64	-	VG2





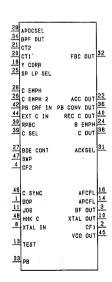
CXA1208R (SONY)

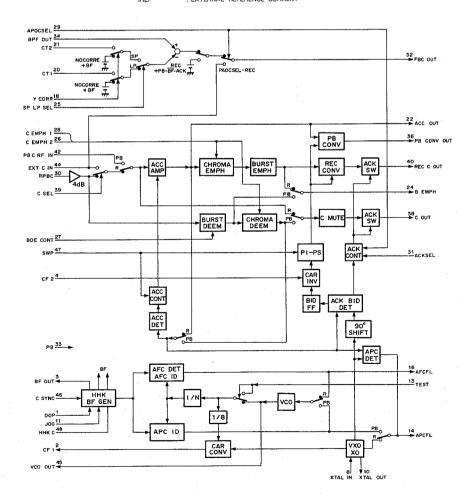
8mm VTR COLOR SIGNAL PROCESSING
- TOP VIEW -



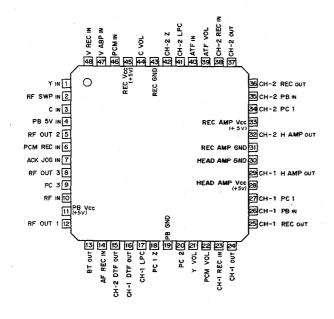
No	1/0	SYMBOL	No	1/0	SYMBOL	No	1/0	SYMBOL
1	I	DOP	17	-	Vcc2	33	I	PB
2	0	CF1	18	I	Y CORR P	34	I	BPF OUT
3	0	BF OUT	19	-	GND2	35	D	ACKBF
4	I	CF2	20	1	CT1	36	0	PB CONV OUT
5	-	Vcc1	21	I	CT2	37	I	C HUTE
6	-	IREF	22	0	ACC OUT	38	0	C OUT
7	-	VREG	23	-	-	39	I	C SEL
В	I	XTAL IN	24	0	B EMPH DUT	40	0	REC C OUT
9	-	IR	25	I	SP LP SEL	41	I	PAL
10	10	XTAL OUT	26	-	C EMPH 2	42	I	PB C RF IN
11	1	J06	27	I	BDECONT	43	<u>L-</u>	GND1
12	0	FSC OUT	28	-	C EMPH 1	44	I	EXT C IN
13	I	TEST	29	I	PAOCSEL	45	0	VCO OUT
14	-	APCFL	30	I	RPBC	46	1	C SYNC
15	-	DCFB	31	I	ACKSEL"	47	1	SWP
16	-	AFCFL	32	0	FBC OUT	48	-	HHK C

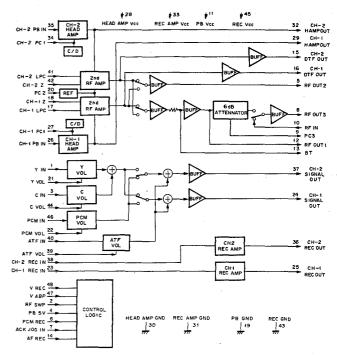
INPUT
ACK SEL
B DE CONT
BPF OUT
C SEL
C MUTE
C SEL
C SYNC
CF2
C SEL
C CHROMA SIGNAL MIPUT SELECT
WHEN REC.
COLOR SIGNAL MUTE SELECT WHEN REC.
CF2
C SEL
C CHROMA SIGNAL MIPUT SELECT
WHEN REC.
CF3
C CF7
C C



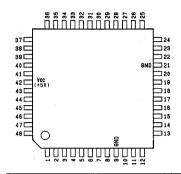


CXA1234AR (SONY) FLAT PACKAGE VIDEO RF REC/PB AMPLIFIER - TOP VIEW -

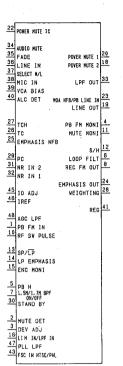


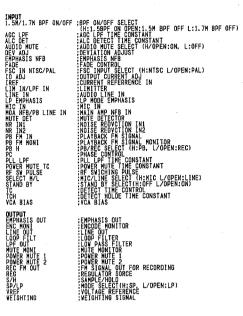


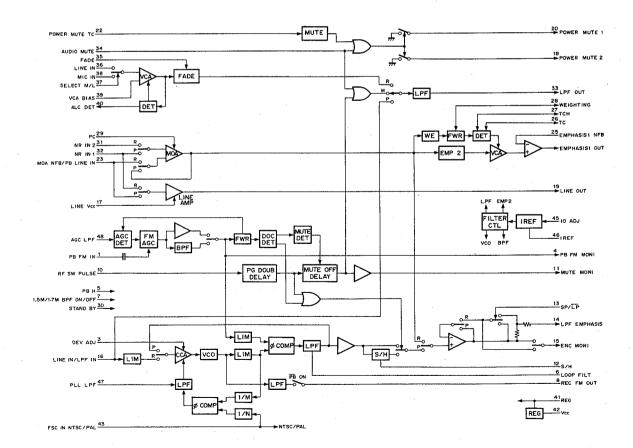
NPUT
ACK JOG IN
AF REC
AF REC
AF REC AFTER RECODING MODE
AFF IN
AF REC
AFTER RECODING MODE
AFF IN
AFF REC
CHAPAGE
CHA



No	1/0	SIGNAL	No	1/0	SIGNAL	No	1/0	SIGNAL	No	1/0	SIGNAL
1	I	PB FN IN	13	1	SP/LP	25	I	EMPHASIS NFB	37	I	SELECT H/L
2	1_	NUTE DET	14	I	LP EMPHASIS	26	1	TC	38	1	HIC IN
3	I	DEV ADJ	15	I	ENC KONI	27	I	TCH	39	I	VCA BIAS
4	0	PB FK HONI	16	I	LIM IN/LPF IN	28	0	WEIGHTING	40	I	ALC DET
5	1	PB H	17	-	LINE VCC	29	I	PC	41	0	RE6
6	0	LOOP FILT	18	0	POWER MUTE 2	30	1	STAND BY	42	-	Vcc
7	1	1.5M/1.7M BPF ON/OFF	19	0	LINE OUT	31	I	NR IN 2	43	1	FSC IN NTSC/PAL
8	0	REC FN OUT	20	0	POWER HUTE 1	32	I	NR IN 1	44	-	YREF
9	<u> </u>	GND	21	-	GND	33	0	LPF OUT	45	1	IO ADJ
10	Ī	RF SW PULSE	22	1	POWER MUTE TO	34	1	AUDIO MUTE	46	1	IREF
11	0	NUTE NONI	23	D	MOA NFB/PB LINE IN	35	I	FADE	47	1	PLL LPF
12	0	\$/H	24	0	EMPHASIS OUT	36	I	LINE IN	48	I	AGC LPF



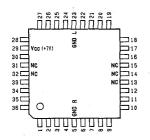




CXA1536Q (SONY)

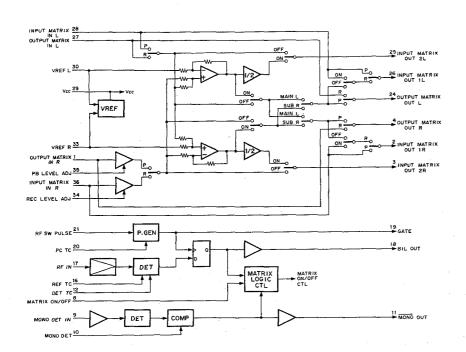
AFM STEREO MATRIX FOR 8mm VTR

- TOP VIEW -



No	1/0	SIGNAL	No	I/0	SIGNAL	No	1/0	SIGNAL
1	I	OUTPUT MATRIX IN R	13	-	NC	25	I	INPUT HATRIX OUT 2L
2	I	INPUT MATRIX OUT IR	14	-	NC	26	I	INPUT MATRIX OUT 1L
3	1	INPUT MATRIX DUT 2R	15	Ξ	NC	27	I	OUTPUT MATRIX IN L
4	0	OUTPUT MATRIX OUT R	16	0	REF_TC	28	Ī	INPUT MATRIX IN L
5	i - "	GND R	17	0	RF IN	29	I	Vcc (+7V)
6	0	SELECT 1	18	0	BIL OUT	30_	I	VREF L
7	1.	SELECT 2	19	0	SATE	31	-	NC
. 8	0	MATRIX ON/OFF	20	-	PC TC	32	-	NC
9	-	MONO DET IN	21	-	RF SW PULSE	33	1	VREF R
10	I	HONO DET	22	I	PB/REC	34	I	REC LEVEL ADJ
11	0	HONO OUT	23	-	GND L	35	I	PB LEVEL ADJ
12	0	DET TC	24	0	OUTPUT MATRIX L	36	0	INPUT MATRIX IN R

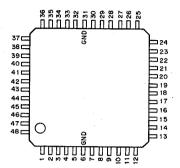




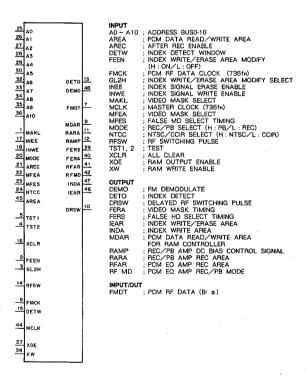
CXD1066Q-Z (SONY)

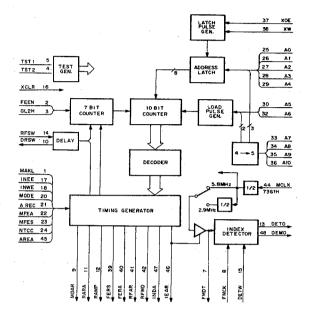
C-MOS PCM AUDIO INDEX TIMING GENERATOR

- TOP VIEW -

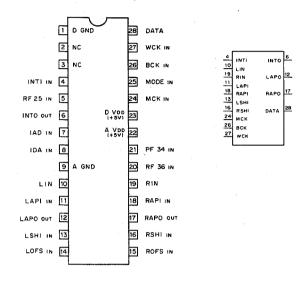


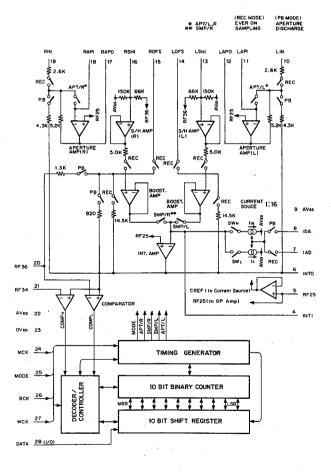
											$(V_{DD} = + 5V)$
PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGANL	PIN NO.	1/0	SYGNAL	PIN NO.	1/0	SYGNAL
1	_	MAKL	13	0	DETO	25	_	A0	37	_	XOE
2	_	FEEN	14	Ī	RFSW	26	-	A1	38	-	XW
3	-	GL 2H	15		DETW	27	-	A2	39	0	FERS
4	_	TST2	16		XCLR	28	1	A3	40	0	FERA
5	E	TST1	17	I	INEE	29		A4	41	0	REAR
6	1	GND	18		INWE	30	1	A5	42	0	RFMD
7	1/0	FMDT	19	-	VDD	31	-	GND	43	-	Von
8	1	FMCK	20	_1	MODE	32		A6	44	1	MCLK
9	0	MDAR	21	-	AREC	33	1	A7	45	1	AREA
10	0	DRSW	22	ı	MFEA	34	T	A8	46	0	IEAR
11	0	RARA	23		MFES	35		A9	47	0	INDA
12	0	RAMP	24	1	NTCC	36		A10	48	0	DEMO





CXD1077M (SONY) MINI FLAT PACKAGE
CMOS A/D, D/A CONVERTER FOR PCM AUDIO
- TOP VIEW -





BCK; BIT CLOCK INPUT TERMINAL

DATA; DATA INPUT/OUTPUT TERMINAL

IAD; INTEGRATION CURRENT SET UP TERMINAL (REC MODE)

IDA; INTEGRATION CURRENT SET UP TERMINAL (PB MODE)

INTI; INTEGRATION AMP INPUT TERMINAL

LAPI; INTEGRATION AMP OUTPUT TERMINAL

LAPI; APERTURE AMP UNPUT TERMINAL (L)

LAPO; APERTURE AMP OUTPUT TERMINAL (L)

LAPO; APERTURE AMP OUTPUT TERMINAL (L)

LOFS; OFFSET CORRECT TERMINAL (L)

LOFS; OFFSET CORRECT TERMINAL (L)

MCK; MASTER CLOCK INPUT TERMINAL

MCK; MASTER CLOCK INPUT TERMINAL (R)

RAPO; APERTURE AMP OUTPUT TERMINAL (R)

RAPI; APERTURE AMP INPUT TERMINAL (R)

RAPI; APERTURE AMP INPUT TERMINAL (R)

RIN; ANALOG SIGNAL INPUT TERMINAL (R)

RIN; ANALOG SIGNAL INPUT TERMINAL (R)

RIN; ANALOG SIGNAL INPUT TERMINAL (R)

RF34; HIGHER RANK VOLTAGE SET UP TERMINAL

RF34; REC) LOW RANK COMPARATOR VOLTAGE OR

(PB) DISCHARGE VOLTAGE SET UP TERMINAL

ROFS; OFFSET CORRECT TERMINAL (R)

RSHI; SAMPLE & HOLD AMP (R) INPUT TERMINAL

WCK; WORD CLOCK INPUT TERMINAL

CXD1175AM (SONY) FLAT PACKAGE

C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER - TOP VIEW -

DVss (GND) 24 OE IN 1 2 23 VRB IN 22 VRBS IN D 0 00T 3 12 AVSS (GND) 21 D1 OUT 4 22 AVSS 20 D2 OUT 5 19 V IN IN D3 OUT 6 AV_{DD} AV_{SS} CK D0 + 7 DV_{DD} DV_{SS} OE AVDD 18 D4 OUT 7 17 VRT IN D 5 OUT B D 6 OUT 9 6 VRTS IN D7 out 10 AVDP 15

AVDD (+5V) 14

DVpp 13

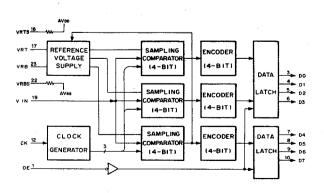
N 12 VIN D3 6. S 18. S 19. VRB D7 10. S 18. S 19. VRB D7 10. S 19. S 19.

STEP	INPUT SIGNAL		DATA OUTPUTS									
SIEF	VOLTAGE	D7	D6	D5	D4	D3	D2	D1 1 1 : : : : : : : : : : : : : : : : :	DO			
0	OV (VRT)	1	1	1	1	1	1	1	1			
1	0.01V	1	1	1	1	1	1.	1	0			
: "	:	7		1	1		:	1				
			1	1	1 :	1	:	1	1			
127	1.34V	1	0	0	0	0	0	0	0			
128	1.35V	0	1	1	1	1	1	1	1			
- : 1	:	1 :	1] :	T	1	1			
	:	:	:	:	:	1	1	1	:			
255	2.7V (VRB)	0	0	0	0	0	0	0	0			

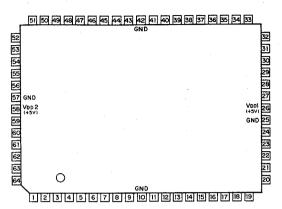
0 : LOW LEVEL 1 : HIGH LEVEL

III DV DD

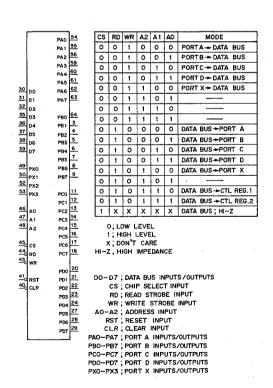
CK IN 12

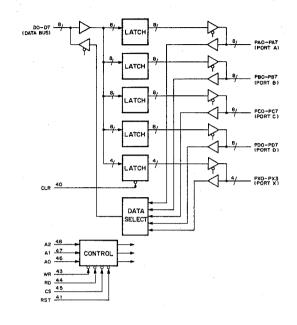


CXD1095Q (SONY) FLAT PACKAGE C-MOS I/O PORT EXPANDER - TOP VIEW -



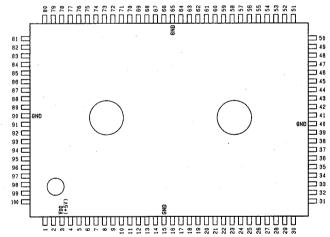
PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	ουτ	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PRO.	IN	ουτ	SYMBOL
$\overline{}$			NC	17	0.	0	PC6	33			NC	49	0	0	PXO
2			NC	18	0	0	PC7	34			NC	50	0	0	PX1
3	0	0	PB I	19			NC	35	0	0	D3	51		L	NC
4	0	0	PB 2	20	0	0	PDO	36	0	0	D4	52	0	0	PX2
5	0	0	PB3	21	0	0	PD1	37	0	0	D5	53	0	0	PX3
6	0	0	PB4	22	0	0	PD2	38	0	0	D6	54	0	0	PAO
7	0	0	PB5	23	0	0	PD3	39	0	0	D7	55	0	0	PA1
8	0	0	PB6	24	0	0	PD4	40	0		CLR	56	0	0	PA2
9	0	0	PB7	25			GND	41	0		RST	57			GND
10			GND	26	0		VDD (+5V)	42			GND	58	0		VDD (+5V)
11	0	0	. PCO	27	0	ō	PD5	43	0		WR	59	0	0	PA3
12	0	0	PC1	28	0	0	PD6	44	0		RD	60	0	0	PA4
13	0	0	PC2	29	0	0	PD7	45	0		CS	61	0	0	PA5
14	0	0	PC3	30	0	0	DO	46	0		AO	62	0	0	PA6
15	0	0	PC4	31	0	0	DI	47	0		A1	63	0	0	PA7
16	0	0	PC5	32	0	0	D2	48	0		- A2	64	0	0	PBO



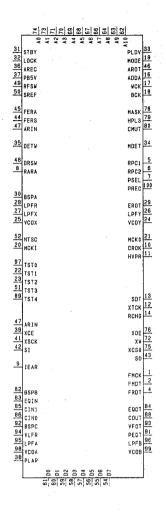


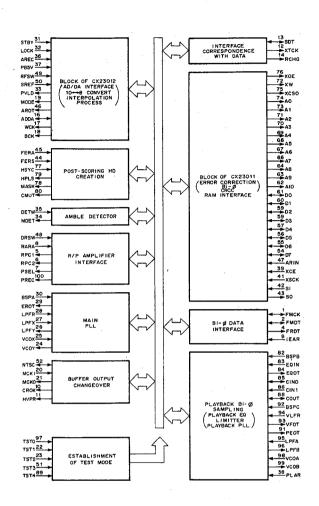
CXD1208Q (SONY)

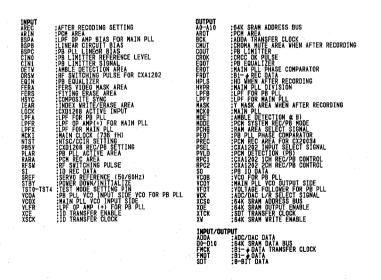
C-MOS PCM AUDIO SIGNAL PROCESSOR FOR 8mm VIDEO - TOP VIEW -



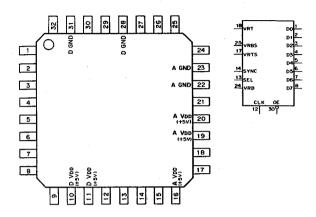
No	1/0	SIGNAL	No	I/0	SIGNAL	No	1/0	SIGNAL	No	1/0	SIGNAL
1	1/0	FHCK	26	0	LPFY	51	I	TST3	76	0	XOE
2	1/0	FHDT	27	1	LPFX	52	I	NTSC	77	I	HSYC
3	- 1	VDD	28	I	LPFR	53	-	VDD	78	0	MASK
4	0	FRDT	29	0	EROT	54	1/0	D7	79	0	HPLS
5	0	RPC1	30	1	BSPA	55	1/0	D6	80	0	CMUT
6	0	RPC2	31	I	STBY	56	1/0	D5	81	I	AVDD
7	0	PSEL	32	I	LOCK	57	1/0	D4	82	1	BSPB
8	1	RARA	33	0	PYLD	58	1/0	D3	83	I.	EQIN
9	I	IEAR	34	0	MDET	59	1/0	D2	84	0	EQOT
10	0	CROK	35	Ī	DETY	60	1/0	D1	85	I	CINI
11	0	HYPR	36	I	AREC	61	1/0	D0	86	I	CINO
12	0	XTCK	37	ī	PB5Y	62	0	A10	87	1	AVss
13	I/0	SDT	38	I	PLAR	63	0	A9	88	0	COUT
14	Ō	RCHG	39	ı	XCE	64	0	A8	89	I	TST4
15	-	GND	40	-	GND	65	-	GND	90	-	GND
16	1/0	ADDA	41	I	XSCK	66	0	A7	91	0	PEOT
17	0	WCK	42	1	SI	67	0	A6	92	I	BSPC
18	0	BCK	43	0	SO	68	0	A5	93	0	VFOT
19	0	MODE	44	1	FERS	69	0	A4	94	I	VLFR
20	I	HCKI	45	1	FERA	70	0	A3	95	1	LPFA
21	0	HCKO	46	0	AROT	71	0	A2	96	D	LPFB
22	1	TST1	47	I	ARIN	72	0	XV	97	I	TSTO
23	I	TST2	48	I	DRSW	73	0	A1	98	I	VCOA
24	0	VCOY	49	I	RFSW	74	0	A0	99	0	YCOB
25	I	ACOX	50	I	SREF	75	0	XCSO	100	0	PREC



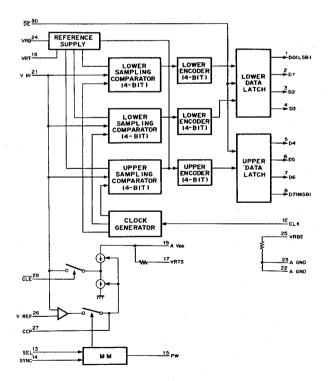




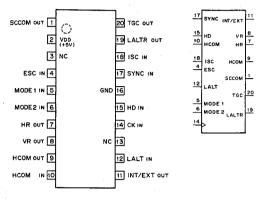
C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER WITH CLAMP FUNCTION - TOP VIEW -



No.	1/0	SIGNAL	No	1/0	SIGNAL	Na	1/0	SIGNAL	No.	1/0	SIGNAL
1	0	DO(LSB)	9	-	N. C.	17	0	VRTS	25	0	YRBS
2	0	D1	10	-	D VDD	18	0	VRT	26	1	VREF
3	0	D2	11	T -	D VDD	19		A VDD	27	1/0	CCP
4	0	D3	12	1	CLK	20	-	A VDD	28	-	D GND
5	0	D4	13	ı	SEL	21	1	V IN	29	1	CLE
6	0	D5	14	1	SYNE	22	-	A GND	30	D	DE
7	0	26	15	1/0	PW	23	Ī -	A GND	31		D GND
8	0	D7 (MSB)	16	_	A VDD	24	D	VRB	32	-	K. C.

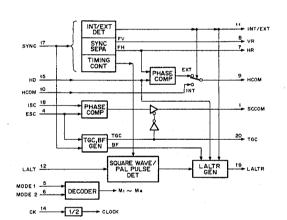


CXD1216M (SONY) FLAT PACKAGE C-MOS GENLOCK DRIVER - TOP VIEW -



	TU	MODE	SYSTEM
MODE1	MODE2	WODE	SISIEM
0	0	M1	PAL-VBS
1	0	M2	PALM-VBS
0	1	M3	PAL,SECAM-VS/SC/LALT
1	1	M4	NTSC-VBS,NTSC-VS/SC PALM-VS/SC/LALT

0 ; LOW LEVEL 1 ; HIGH LEVEL



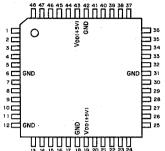
INPUT CK ESC HCOM HD ISC LALT MODE1,2 SYNC : 4fsc CLOCK INPUT : SC_/COLOR BURST : PHASE COMPARATE FROM CXD1217 : H DRIVE FROM CXD1217 : SUBCARRIER FROM CXD1217 : LALT FROM REFERENCE SIGNAL GENERATOR : SYSTEM SELECT : SYNC FROM REFERENCE SIGNAL GENERATOR

OUTPUT HCOM HR INT / EXT LALTR SCCOM TGC VR

PHASE COMPARATOR HR WITH HD fH OF SYNC SEPARATE INTERNAL/EXTERNAL SPECIFIED LINE CHANGE RESET PHASE COMPARATOR ESC WITH ISC TRISTATE CONTROL fv OF SYNC SEPARATE

CXD1229Q (SONY) FLAT PACKAGE

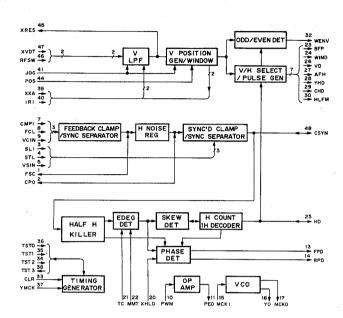
C.MOS AUTOMATIC FREQUENCY CONTROL (AFC) /SYNC SEPARATOR - TOP VIEW - /



				ট	>					
_	13 1	4 15	16 17	18	19	20 2	1 22	23 2	24	
PIN ASS	GNN	1ENT	•							
PIN				П	PIN	П				DIM

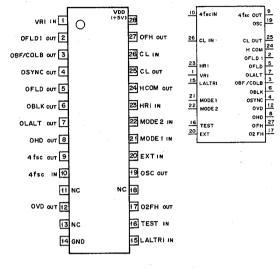
PIN NO.	1/0	SYMBOL									
1	1/0	FCS	13	0	FPD	25	0	HD	37	T	YMCK
2	1/0	CPO	14	0	RPD	26	0	VD	38	0	TST3
3	1	SLI	15	_	MCKI	27	0	AFH	39	1/0	XXA
4		STL	16	0	YO	28	0	YHD	40	1/0	IR1
5	1	VSIN	17	0	MCKO	29	0	CHD	41	П	JOG
6	-	GND	18	_	GND	30	0	HLFH	42	-	GND
7	ı	CMPI	19	-	Vop	31	_	GND	43	-	Vpp
8	1	FCL	20	1	XHLD	32	0	WEVN	44	1	POS
9	1	VCIN	21	0	TC	33	T	CLR	45	0	XRES
10	. 1	PWM	22	1	MMT	34	1	TST2	46		RFSW
11	0	PEO	23	0	BFP	35	1	TST1	47		XVDT
12	-	GND	24	0	WIND	36	1	TSTO	48	0	CSYN

 $(V_{DD} = + 5V)$

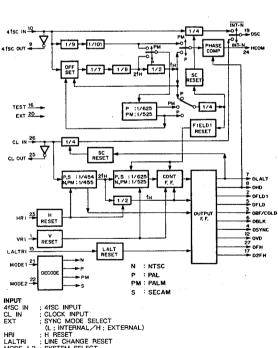




CXD1217M (SONY) FLAT PACKAGE C-MOS SYNC GENERATOR - TOP VIEW -

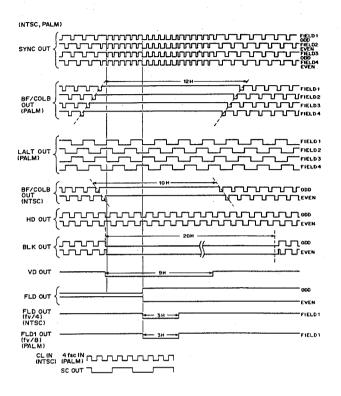


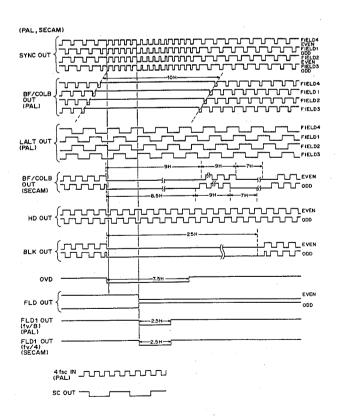
YSTEM	4fsc	CLOCK	INF	ŽŲT	SYSTE
NTSC	910fH	910fH	MODE1	MODE2	31315
PAL	1135fн+2f√	908fH	0	0	NTSC
PALM	909fH	910fH	0	1	SECA
SECAM		908fH	1	0	PALN
02.01.111			1	1 1	PAL

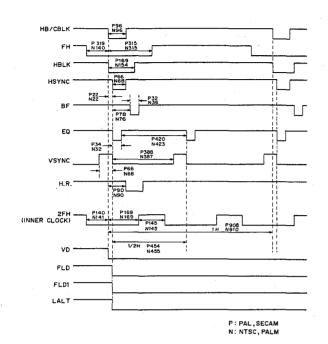


4fSC INPUT
CLOCK INPUT
SYNC MODE SELECT
(L ; INTERNAL/H ; EXTERNAL)
H RESET
LINE CHANGE RESET
SYSTEM SELECT
V RESET 1,2

4fSC OUTPUT
CLOCK OUTPUT
PHASE COMPARATOR
2fH OUTPUT
BURST FLAG/COLOR BLANKING
COMPOSITE BLANKING
H FREQUENCE
EVEN, OOD
FIELD
H DRIVE
LINE CHANGE
SUBCARRIER
COMPOSITE SYNC
V DRIVE OUT PUT OUT PUT
4fSC OUT
CL OUT
HCOM
02fH
OBF/COLB
OBLK
OFH
OFLD
OFLD
OLALT
OSC
OSYNC
OVD

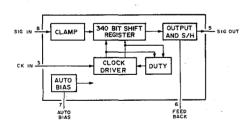




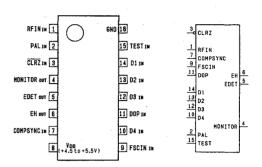


CXL5502M (SONY) FLAT PACKAGE C-MOS CCD1H DELAY LINE (NTSC) - TOP VIEW -





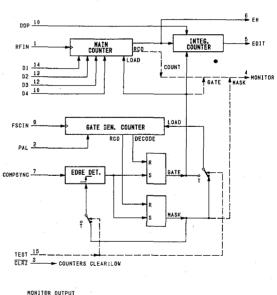
CXD2107M (SONY) FLAT PACKAGE C-MOS DEFINITION DETECTOR - TOP VIEW -

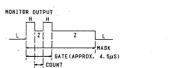


INPUT
CLRZ : CLEAR SIGNAL INPUT FOR INTERNAL COUNTERS
CONPSYNC; COMPOSITE SYNC INPUT
01-04 : LOAN DATA IMPUTS FOR MAIN COUNTER (DO-HIGH, FIXED DATA)
DDP : DROPOUT CONPENSATION PULSE INPUT
FSCIN : COLOR SUBCARRER INPUT. NISSO-3.579545HHZ, PAL-4. 433619HHZ
PAL : OPERATION MODE SELECT IMPUT. HIGH-PAL, LOW-NTSC
RFIN : PLAYBACK Y RF SIGNAL INPUT
TEST : TEST CONTROL IMPUT. NORMAL-LOW
OUTPUT
UTPUT
EST : E+ MODE DETECTION OUTPUT, CONTINUOUS 16H

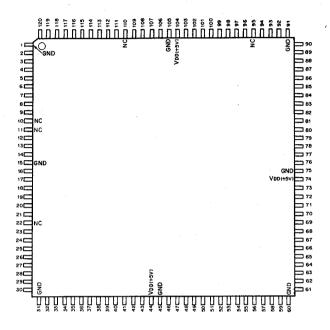
OUTPUT
EDET : E* MODE DETECTION OUTPUT, CONTINUOUS 16H
EH : E* MODE DETECTION OUTPUT, DISTINUOUS 1N 1H
MONITOR : MONITOR OUTPUT OF COUNT, GATE, AND MASK PULSES
NOTE

* : EXTENDED DEFINITION





CXD1226Q (SONY) FLAT PACKAGE C-MOS DIGITAL CHROMA DECODER/Y, C FIELD NOISE REDUCER - TOP VIEW -



	8 8 8	Elaini	at Ff	뭐 :	z‡ ≎‡	의	201 4	l al	%	
Г	P INV	NR-D DOP	YEVO		YSRO	YSR2	YSR4	386	rse7	
wyo	- E	T E D	¥ \$	× ×	× ×	ξ, ξ,	₩.	ÿ ÿ	۲	YMW
WY1										YMW
WY2										YMW
WY3										YMW3
WY4										YMW
WY5										YMW
wy6										YMW
WY7										YMW
										1 mier
WEVN										PEDO
OFSB										PEDI
										PEDA
WCYD										PEDS
WCY1										, LU3
WCY2										CMWC
WCY3										CMW1
WCY4										CMW
WCY5										CMW3
WCY6										,,,,,
WCY7										CEVO
										CEVI
SCO										
PIO										CSRC
PII										CSR 1
VMT										CSR2
VCDT										CSR
νυνο										
/UV1										
50										
50										
SC										
at										
HD										BPEC
HD										BPE1
MPT										BPE
TBF										BPE3
CK										
мо										OUT
MO M1										OUT
M1										OUT
SW1										COCK
ACO1	μυ		- 0	-		Ų		¥		VCOC
	69 MMTC 67 MMTC 70 INFS	MPL MTST	LIMO	SADM	구	W.C.	2	YMCK CLR		

PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	- 1	GND	31	-	GND	61	-	GND	91	_	GND
2	1	CSR0	32	1	CMCK	62	0	MPL	92	1	YMCK
3	1	CSR1	33	1	DOP	63	0	LIMO	93	1	PINV
4		CSR2	34	1	USC0	64		SW1	94	1	NRFD
5	1	CSR3	35	1	JP10	65	1	MTST	95	-	, NC
6	0	CMW0	36	1	JPI1	66	0	FSC	96	1	AHD
7	0	CMW1	37	1	YSYS	67	Т	INFS	97	1	CHD
8	0	CMW2	38	ī	PHEN	68		MPXT	98	1	YHD
9	0	CMW3	39	1	PD	69	1	MMTC	99	1	WEVN
10	-	NC	40	0	PED0	70	1	EXFS	100	1	OFSB
11	-	NC	41	0	PED1	71	1	CS0	101	- 1	SADM
12	1	YSR0	42	0	PED2	72	1	CS1	102	\neg	CLR
13	_	YSR1	43	0	PED3	73	ł	WY7	103	0	CMPT
14	-	VDD (+5V)	44	-	VDD (+5V)	74	-	VDD (+5V)	104	_	Voo (+5V
15	-	GND	45	-	GND	75	-	GND	105	1	GND
16	1	YSR2	46	0	COCK	76	1	WY6	106	0	RBT
17	-	YSR3	47	0	VCOO	77	1	WY5	107	0	ACK
18	0	YMW0	48	1	VCOI	78	1	WY4	108	1	YDLY
19	0	YMW1	49	0	OUTO	79	1	WY3	109	-	CTH
20	0	YMW2	50	1	IMO	80	1	WY2	110	-	NC
21	0	YMW3	51	0	OUT1	81	- 1	WY1	111	1	FNR
22	-	NC	52	T	IM1	82	1	WYO	112	ì	WVMT
23	1	YSR4	53	-	AG	83	1	WCY7	113	1	WCDT
24	1	YSR5	54	0	OUT2	84	1	WCY6	114	1	WUVO
25	1	YSR6	55	1	IM2	85	1	WCY5	115	ī	WUV1
26	1	YSR7	56		LIMI	86	1	WCY4	116	I	YEV0
27	0	YMW4	57	0	BPEO	87	- 1	WCY3	117	ı	YEV1
28	0	YMW5	58	0	BPE1	88		WCY2	118	- 1	YEV2
29	0	YMW6	59	0	BPE2	89	1	WCY1	119	1	CEV0
30	0	YMW7	60	0	BPE3	90	1	WCY0	120	ī	CEV1

* 1	CHROMA	SYSTEM	MODE	SELECTION

CS1	CS0	MODE
0	0	NTSC
0	1	PAL
1	0	CHROMA BASE BAND INPUT
1	. 1.	PROHIBITION

* 3 CHROMA SIGNAL NOISE REDUCER SELECTION

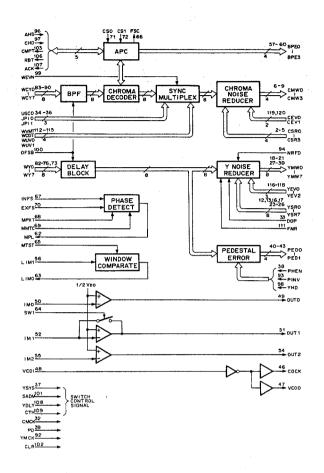
CEV0	CEV1	OPERATION
0	0	NOISE REDUCER (SOFT)
0	1	NOISE REDUCER (MIDDLE)
1	0	NOISE REDUCER (STRONG)
1	1	NO OPERATION

0 : LOW LEVEL 1 : HIGH LEVEL

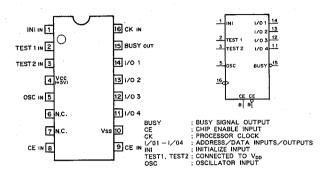
YEV0	YEV1	YEV2	OPERATION
0	0	0	NOISE REDUCER (SOFT)
0	0	1	NOISE REDUCER (MIDDLE)
0	. 1.	0	NOISE REDUCER (STRONG)
0	1	1	AFTER IMAGE
1	0	ò	VERTICAL FILTER
1	0	1	FADE IN/OUT
1	1	0	SELECT AFTER IMAGE
1	1	1	NO OPERATION

		•
	I I I I I I I I I I I I I I I I I I I	
	INPUT AG	: ANALOG GND
	AHD	: H SYNC INPUT FOR APC
* 3		: C NOISE REDUCER MODE SELECT INPUTS
	CHD	: H SYNC INPUT FOR BURST DETECT
		: DIRECT CLEAR INPUT
	CMCK	: CLOCK INPUT FOR CHROMA SYSTEM
	CSR0 - CSR3	CHROMA READ DATA INPUTS
* 1	CS0, 1	CHROMA SYSTEM SELECT INPUTS
	CTH	: CHROMA TEST TERMINAL
	DOP EXFS	: DROPOUT CONPENSATION PULSE INPUT
	ENID	: EXTERNAL Fsc INPUT : NOISE REDUCER ON/OFF CNTROL INPUT
	IMO IM2	: AUDIO RANGE AMP INPUTS
	INFS	: INTERNAL FSc INPUT
	JPI0. 1	: ID CODE MONITOR INPUTS (D2, D3)
	LIMI	: WINDOW COMPARATOR INPUT
	MMTC, MPXT, I	MTST, PD
		: TEST PIN
	NRFD	Y FIELD NOISE REDUCER DATA INPUT
	OFSB	: OFF SET BINARY MODE INPUT
		: CHROMA APC SYSTEM CONTROL INPUT
	PINV	: PEDESTAL CLAMP ERROR INVERT INPUT
	SADM SW1	: Y/C SIGNAL, H: COMPOSITE SIGNAL SELECT INPUT : AUDIO RANGE SWITCH INPUT
		: USER CODE FOR OPTION
		: VCO INPUT
		: WRITE FRAMING CODE TIMING INPUT
		: L CHROMA SIGNAL, H : COMPOSITE SIGNAL INPUTS
	WEVN	: WRITE EVEN ODD FIELD MONITOR INPUT
	140 1200 1	WOITE II OF THEIR BUILTO
	MVMT	: WRITE U/V IMING INPUTS : WRITE Y SIGNAL INPUTS : Y DELAY ADJUST INPUT
	WY0 – WY7	: WRITE Y SIGNAL INPUTS
	YDLY	Y DELAY ADJUST INPUT Y NOISE REDUCER MODE SELECT INPUTS
* 2	YEV0 - YEV2	: Y NOISE REDUCER MODE SELECT INPUTS
	IND	, I II DRIVE FULSE INFUI
	YMCK	; Y MEMORY CONTROL CLOCK INPUT ; Y MEMORY DATA INPUTS
	YSYS	: Y DELAY ADJUST INPUT
	1313	(H: 3.58MHz C SYSTEM, L: 4.43MHz C SYSTEM)
		(11. 0.30MILE G GIGTEM, E: 4.45MILE C GISTEM)
	OUTPUT	
	ACK	; CLOCK OUTPUT FOR APC
		(H: B/W MODE, L: COLOR MODE)
	BPE0 - BPE3	; PHASE ERROR OUTPUTS FOR APC
		(OFFSET BINARY OUTPUTS)

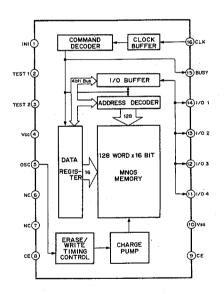
- BPE3 (PHASE CHRON OUTPUTS FOR AC (OFFSET SIMARY OUTPUTS)
: MONITOR TERMINAL FOR TEST - CHROMA WRITE DATA OUTPUTS : VCO OUT CLOCK OUTPUT : 1/4 CLOCK OUTPUT : WINDOW COMPARATOR OUTPUT : WINDOW COMPARATOR ERROR OUTPUT : AUDIO RANGE AMP OUTPUTS : MONITOR PIN FOR TEST : VCO OUTPUT : CO OUTPUT : WONTOR PIN FOR TEST : VCO OUTPUT : WONTOR PIN FOR TEST : VCO OUTPUT : Y MEMORY DATA OUTPUTS CMPT
CMW0 - CMW3
COCK
FSC
LIMO
MPL
OUT0 - OUT2
PED0 - PED3
RBT
VCOO
YMW0 - YMW7



CXK1009P (SONY)
MNOS 2048BIT (128x16) E²PROM
– TOP VIEW –

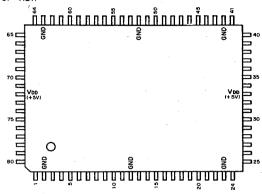


	FUNCTION	INPUT					
	FUNCTION	1/04	1/03	1/02	1/01	CE	
	READ	0	1	0	0	0	
	WRITE	0	1	0	1	0	
	NO OPERATION	0	0	X	Х	0	
	NO OPERATION	1	0	Х	Х	0	
0 LOW LEVEL	NO OPERATION	1	1	Х	X	<u> </u>	
1 ; HIGH LEVEL X : DON'T CAR	NO OPERATION	X	Х	Х	Х	1	



CXD1227Q (SONY)

C-MOS DIGITAL CHROMA ENCODER/VERTICAL ENHANCER
- TOP VIEW -



PIN A	PIN ASSIGNMENT (V _{DD} = + 5									$(V_{DD} = + 5V)$	
PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	0	TSTO	21	1	CMR3	41	1	HPR2	61		CCKI
2	-	GND	22	T	CMR2	42	-	GND	62	0	CCKO
3	0	TST1	23	-	GND	43	0	DOC	63	1	GND
4	0	RC0	24	T	CMR1	44	1	HPR1	64	0	XOUT
5	0	RC1	25	_	CMR0	45		HPR0	65	-	XIN
6	0	RC2	26	0	FRM0	46	1	HBD3	66	0	USCO
7	0	RC3	27	0	FRM1	47	-	HBD2	67	1	CLRI
8	0	RC4	28	0	JPI0	48	_	HBD1	68	0	PCOM
9	0	RC5	29	0	JPI1	49	-	HBD0	69		CTLZ
10	0	RC6	30	0	RFSC	50	_	BNS1	70	ı	FSIG
11	0	RC7	31	1	CS0	51	1	BNS0	71		FREF
12	-	GND	32	1	CS1	52	-	GND	72	0	RY0
13	-1	YMR7	33	-	Voo	53		YCKI	73	-	Voo
14	- 1	YMR6	34	1	SDAM	54	1	RVMT	74	0	RY1
15	-1	YMR5	35	1	PALP	55		BDR	75	0	RY2
16	1	YMR4	36	i	OFSB	56	ı	YCFR	76	0	RY3
17	-1	YMR3	37	1	BDL7	57	1	RCDT	77	0	RY4
18	-1	YMR2	38	1	BDL6	58	1	RUV1	78	0	RY5
19	T	YMR1	39	1	RSYC	59	i t	RUV0	79	0	RY6
20	I	YMR0	40	1	YTIM	60	0	REVN	80	0	RY7

20	1 1	11010 40	T THE	BO O REVIN 180 O HIT
20	YMR O	RYO 72	INPUT BDR	; BORDER TIMING INPUT
19	YMR 1	RY1 74	* 1 BDL6, 7	Y BORDER LEVEL SELECT INPUTS
18	YMR 2	RY2 75	* 2 BNS0, 1 CCKI	: SOLORIZATION RESOLUTION SELECT
17	YMR 3	RY 3 76	CLRI	: CHROMA CLOCK INPUT (4fsc) : CLEAR INPUT
16	YMR 4	RY4 77		: CHROMA DATA INPUTS
15	YMR 5	RY 5 78	* 3 CS0, 1	: CHROMA SYSTEM SELECT INPUTS
14		""" l	CTLZ	: PHASE COMPARATOR OUT CONTROL INPUT
13	YMR 6	RY6 79 RY7 80	FREF	: PHASE COMPARATOR REFERRENCE SIGNAL INPUT
	YMR 7	RY7	FSIG	: PHASE COMPARATOR SIGNAL INPUT
45	HPRO		* 4 HBD0, 1 * 5 HBD2, 3	: U-AXIS BORDER LEVEL INPUTS : V-AXIS BORDER LEVEL INPUTS
44	HPR 1		* 6 HPR0 - 2	: H PROCESS INPUTS
41	HPR 2		OFSB	OFF SET BINARY MODE INPUT
51	BNSO		PALP	: PAL PHASE CONTROL INPUT
50			RCDT	; READ FRAMING CODE TIMING INPUT
38	BNS 1	į.	RSYC	READ SYNC INPUT
37	BOL 6		RUV0 - 1	READ U/V TIMING INPUTS
40	BDL 7	1	RVMT SDAM	: READ VIDEO MUTE INPUT : D/A MODE SELECT INPUT
	YTIM	i	XIN	: CHROMA CLOCK INPUT FOR OSCILLATOR
<u>55</u>	BDR	1	YCKI	: Y CLOCK INPUT (910fH)
39	RSYC	1	YCFR	: Y/C FRAMING ON/OFF SELECT INPUT
54	RVMT		YMR0 - 7	: Y DATA INPUTS
53	YCKI		YTIM	: Y TIMING CONTROL INPUT
25		RCO 4	OUTPUT	
24	CMRO	HCO 5	CCKO	; CHROMA CLOCK OSCILLATOR OUTPUT (4fsc)
22	CMR 1	R C 1 5	DOC	: DROP OUT CONTROL MONITOR OUTPUT
21	CMR 2	RC 2	FRM0, 1	: CHROMA FRAMING CODE OUTPUTS
49	CMR3	HC 3	JPI0, 1	; ID CODE MONITOR OUTPUTS (D2, D3)
	ОДВН	RC4 8	PCOM RC0 - 7	: PHASE COMPARATOR OUTPUT : READ CHROMA D/A OUTPUTS
48	HBD I	RC5 9	REVN	: READ EVEN/ODD FIELD MONITOR OUTPUT
47	HBD 2	RC 6 10	RFSC	: READ fsc OUTPUT
46	HBD 3	RC7 11	RY0 - 7	READ Y D/A OUTPUTS
59	RUV O		TST0, 1	: TEST TERMINALS
58			USCO XOUT	: USER CODE FOR OPTION : CHROMA CLOCK OUTPUT FOR OSCILLATOR
31	RUV 1	į	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CHROWA CLOCK OUTFUT FOR USCILLATOR
32	cso	Į.		
34	١٠٠,	1		4
35	SDAM			
61	PALP	1		
	CCKI	FRMO 26		
	l	FOM1 27		
56	l	JP10 28		

TABLE 1 * 1 BORDER LEVEL

BDL7	BDL6	LEVEL
ō	0	8H (- 50IRE)
0	1	48H (- 100IRE)
1	0	C8H (CLAMP LEVEL)
1	-	C8H (OIRE)

TABLE 2 * 2 SOLORIZATION RESOLUTION

INP	UTS		0	UTPU	TS	
BNS0	BNS1	RY0	RY1	RY2	RY3	RY4
0	0	0	0	1	X	X
0	1.	0	0	0	1	X
1	0	0	0	0	0	1
1	.1	X	X	Х	X	X

TABLE 3 *3 CHROMA SYSTEM MODE SELECTION

CS1	CS0	MODE
Ō	0	NTSC
0	1	PAL
1	0	CHROMA BASE BAND OUT
1	1	(PAL)

TABLE 4 * 4 U-AXIS BORDER LEVEL

HBD1	HBD0	LEVEL
0	0	20 IRE
0	1	- 20 IRE
1	0	~ 30 IRE
1	1	0 IRE

TABLE 5 * 5 V-AXIS BORDER LEVEL

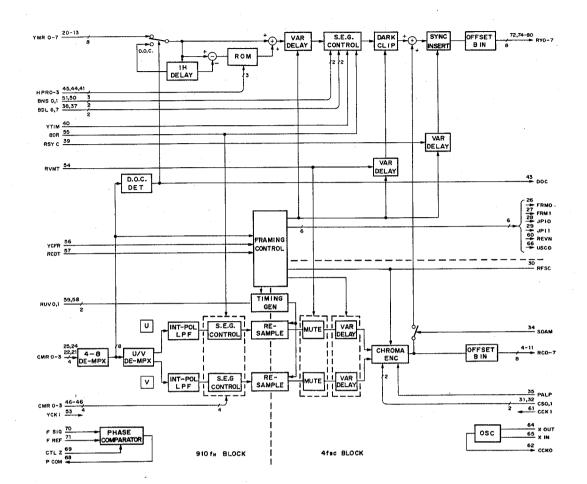
HBD3	HBD2	LEVEL
0	0	20 IRE
0	1	- 20 IRE
1	0	- 30 IRE
1	1	0 IRE

TABLE 6 *6 H PROCESS MODE SELECTION

HPR2	HPR1	HPR0	OPERATION
0	0	0	V-ENHANCE (SOFT)
0	0	1	V-ENHANCE (SOFT)
0	1	0	V-ENHANCE (MIDDLE)
0	1	1	V-ENHANCE (STRONG)
1	0	0	MIX RATIO HT:HP=1:1
1	0	1	MIX RATIO HT:Hp=1:3
1	1	0	MIX RATIO HT:Hp=3:1
1	1	1	NO PLAY

0 : LOW LEVEL 1 : HIGH LEVEL H_T = THROUGH H_P = 1H DELAY

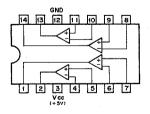
69 70 71 FREF PCOM

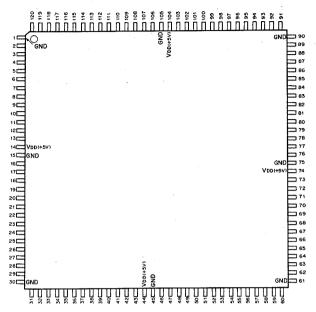


LM2903PS (TI) FLAT PACKAGE UPC393G2 (NEC) FLAT PACKAGE DUAL VOLTAGE COMPARATORS - TOP VIEW -

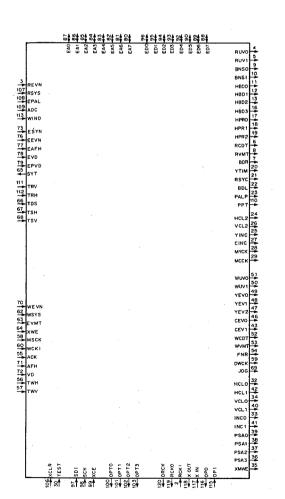


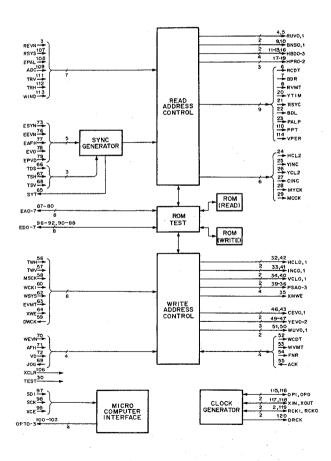
LM339D (TI) FLAT PACKAGE UPC339C (NEC) QUAD COMPARATORS - TOP VIEW -





PIN NO.	1/0	SYMBOL									
1	-	GND	31		GND	61		GND	91	1	GND
2	1	RCK1	32	0	HCL0	62	1	WSYS	92	1/0	ED4
3	1	REVN	33	0	INC0	63	-	EVMT	93	1/0	ED3
4	0	RUVO	34	0	VCL0	64	_	XWE	94	1/0	ED2
5	0	RUV1	35	0	XMWE	65	0	SYT	95.	1/0	ED1
- 6	0	RCDT	36	0	PSA3	66	-	TDS	96	1/0	ED0
7	0	BDR	37	0	PSA2	67	1	TSH	97	_	\$D1
8	0	RVMT	38	0	PSA1	68		TSV	98		SDK
9	0	BNS0	39	0	PSA0	69	0	JOG	99	1	XCE
10	0	BNS1	40	0	VCL1	70	T	WEVN	100	0	OPT0
11	0	HBD0	41	0	INC1	.71		AFH	101	0	OPT1
12	0	HBD1	42	0	HCL1	72		VD	102	0	OPT2
13	0	HBD2	43	0	CEV1	73	1	ESYN	103	0	OPT3
14	-	Vno (+5V)	44	-	VDD (+5V)	74	-	VD0 (+5V)	104	-	VDD (+5V)
15		GND .	45	-	GND	75	- '	GND	105	-	GND
16	0	HBD3	46	0	CEV0	76	1	EEVN	106	-1	XCLR
17	0	HPR0	47	0	YEV2	77	1	EAFH	107	1	RSYS
18	0	HPR1	48	0	YEV1	78	1	EVD	108	1	EPAL
19	0	HPR2	49	0	YEV0	79	1	EPVD	109	1	ADC
20	0	YTIM	50	-0	WUV1	80	1/0	EA7	110	0	PPT
21	0	RSYC	51	0	WUV0	81	1/0	EA6	111	1	TRV
22	0	BDL	52	0	WCDT	82	1/0	EA5	112	1	TRH
23	0	PALP	53	0	WVMT	83	1/0	EA4	113		WIND
24	0	HCL2	54	0	FNR	84	1/0	EA3	114	0	VPER
25	0	YINC	55	ī	ACK	85	1/0	EA2	115		OPI
26	0	VCL2	56	I	TWH	86	1/0	EA1	116	0	OPO
27	0	CINC	57	1	TWV	87	1/0	EA0	117	T	XIN
28	0	MYCK	58	1	MSCK	88	1/0	ED7	118	0	XOUT
29	0	MCCK	59	0	DWCK	89	1/0	ED6	119	0	RCKO
30	T	TST	60	1	WCKI	90	1/0	ED5	120	0	DRCK





Y BORDER LEVEL OUTPUT

BORDER OUTPUT

SOLARIZATION CONROL OUTPUTS

C NOISE REDUCER MODE SELECT OUTPUTS

READ PORT CHROMA INCREMENT OUTPUT

DELAYED READ CLOCK OUTPUT

DELAYED WRITE CLOCK OUTPUT

NOISE REDUCER ON/OFF CONTROL OUTPUT

NOISE REDUCER ON/OFF CONTROL OUTPUT

INCISE REDUCER ON/OFF CONTROL OUTPUT

INCAIS BORDER LEVEL OUTPUTS

WRITE PORT HORIZONTAL CLEAR OUTPUT

READ PORT HORIZONTAL CLEAR OUTPUT

READ PORT LINE INCREMENT OUTPUT

READ PORT CHROMA CLOCK OUTPUT

INVERTER OUTPUT

OPTION OUTPUTS

PAL PHASE CONTROL OUTPUT

SMALL PICTURE TIMING OUT

WRITE PORT TRANSFER SYNC OUTPUTS

READ LYV TIMING OUTPUT

READ LOCK OUTPUT

READ LOCK OUTPUT

READ LOCK OUTPUT

READ LOCK OUTPUT

MONITOR PIN FOR TEST

WRITE PORT VERTICAL CLEAR OUTPUT

WRITE PORT VERTICAL CLEAR OUTPUT

WRITE PORT VERTICAL CLEAR OUTPUT

WRITE FORM VERTICAL CLEAR OUTPUT

WRITE FORM VERTICAL CLEAR OUTPUT

WRITE FORT WRITE ENABLE OUTPUT

VERTIC PORT VERTICAL CLEAR OUTPUT

WRITE FORT WRITE ENABLE OUTPUT

VERTICE PORT VERTICAL CLEAR OUTPUT

VERTICE PORT WRITE ENABLE OUTPUT

VERTICE PORT VERTICAL CLEAR OUTPUT

VERTICE PORT WRITE ENABLE OUTPUT

CLOCK OUTPUT

VERTICE PORT VERTICAL CLEAR OUTPUT

VERTICE PORT WRITE ENABLE OUTPUT

VERTICE PORT WRITE ENABLE OUTPUT

VERTICE PORT VERTICAL OUTPUT INPUT
ACK
ACK
CLOCK INPUT FOR APC (H:B/W MODE, L:COLOR MODE)
ADC
CHROMA ADDRESS CONTROL INPUT
AFH
AFC H ORIVE INPUT
EAFH
EXTERNAL SYNC MODE H DRIVE INPUT
EEVN
EEVN
EXTERNAL SYNC MODE EVEN-YOOD SELECT INPUT
EPAL
EXTERNAL SYNC MODE EVEN-YOOD SELECT INPUT
EPAL
EXTERNAL SYNC MODE PAL COLOR ID INPUT
EVD
ESYN
EXTERNAL SYNC MODE PAL COLOR ID INPUT
EVD
EXT
EXTERNAL SYNC MODE V DRIVE INPUT
EVD
EXT
EXTERNAL SYNC MODE V DRIVE INPUT
EVD
EXTERNAL SYNC MODE V DRIVE INPUT
EVN
EXTERNAL SYNC MODE V DRIVE INPUT
EVN
EXTERNAL SYNC MODE V DRIVE INPUT
EVN
EXTERNAL SYNC MODE V DRIVE INPUT
REVN
ERAD CLOCK INPUT
REVN
ERAD EVEN-YODD FIELD MONITOR INPUT
SON
SERIAL DATA INPUT
SON
SERIAL CLOCK INPUT
TOS. TRH, TRY, TSH
TST, TSV, TWH, TWY
TOS. TRH, TRY, TSH
TST, TSV, TWH, TWY
WEVN
EXTERNAL CLOCK INPUT
WEVN
WHITE CLOCK INPUT
WEVN
WENTE CLOCK INPUT
WEND
WINDOW COMPARATOR INPUT FOR V-PLL
WSYS
WAITE SYNC SELECT INPUT (H:NTSC, L:PAL)
XCE
CHIP ENABLE INPUT
XIN
CLOCK INPUT
XIN
CLOCK INPUT
XIN
EVALUATE SYNC SELECT INPUT (H:NTSC, L:PAL)
XCE
CHIP ENABLE INPUT
XIN
EVALUATE ENABLE INPUT
XIN
EVALUATE ENABLE INPUT
XIN
EVALUATE ENABLE INPUT
XVE
EVALUATE ENABLE INP * 3 * 4 * 1 SOLORIZATION RESOLUTION * 4 V-AXIS BORDER LEVEL INPUTS OUTPUTS
BNS0 BNS1 RY0 RY1 RY2 RY3 RY4 HBD3HBD2 LEVEL 0 0 0 1 1 0 20 IRE - 20 IRE - 30 IRE 0 0 0 0 0 1 X X 0 1 0 0 0 1 X X 1 0 0 0 0 1 X 1 1 X X X X X X * 2 CHROMA SIGNAL NOISE REDUCER SELECTION

CEV0	CEV1	OPERATION
0	0	NOISE REDUCER (SOFT)
0	1	NOISE REDUCER (MIDDLE)
1	0	NOISE REDUCER (STRONG)
1	1	NO OPERATION

* 3 U-AXIS BORDER LEVEL

HBD	1 HBD0	LEVEL
0	0	20 IRE
0	1	- 20 IRE
1	0	- 30 IRE
1	1	0 IRE

* 5 H PROCESS MODE SELECTION

HPR2	HPR1	HPR0	OPERATION
0	0	0	V-ENHANCE (SOFT)
0	0	1	V-ENHANCE (SOFT)
0	1	0	V-ENHANCE (MIDDLE)
0	1	1	V-ENHANCE (STRONG)
1	0	0	MIX RATIO HT:Hp=1:1
1	0	1	MIX RATIO Ht:Hp=1:3
1	1	0	MIX RATIO HT:Hp=3:1
1	1	1	NO PLAY

0 : LOW LEVEL

H_T = THROUGH H_P = 1H DELAY

INPUT/OUTPUT EA0 - EA7 ED0 - ED7

ROM TEST TERMINAL INPUTS/OUTPUTS
ROM TEST TERMINAL INPUTS/OUTPUTS

* 6 Y SIGNAL NOISE REDUCER SELECTION *6 Y SIGNAL N

YEVO|YEV1|YEV2|

0 0 0 0

0 0 1 0

0 1 1 0

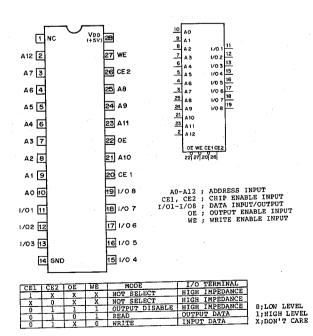
1 0 0 1

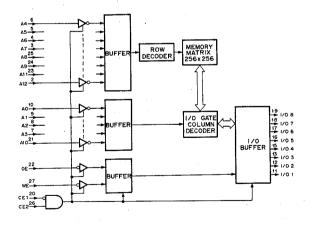
1 0 0

1 1 0 0

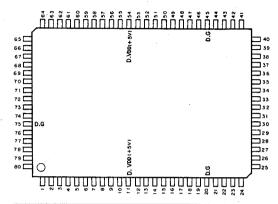
1 1 0 0 OPERATION NOISE REDUCER (SOFT)
NOISE REDUCER (MIDDLE)
NOISE REDUCER (STRONG)
AFTER IMAGE VERTICAL FILTER FADE IN/OUT SELECT AFTER IMAGE NO OPERATION

CXK5864BM-12L (SONY) FLAT PACKAGE C-MOS 64K (8192x8)-BIT STATIC RAM TOP VIEW -

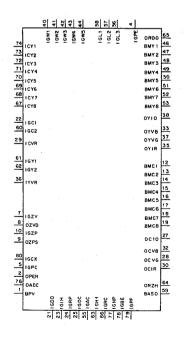




CXD2105AQ (SONY) FLAT PACKAGE C-MOS DIGITAL COMB FILTER FOR VTR'S - TOP VIEW -



PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	_	BPV	21	1	IGD0	41	1	IGW2	61		IGY1
2	0	OPER	22		IGC1	42	-	IGW3	62		IGY2
3	-	A.VDD P	23	_	IGIH	43	I	IGW4	63	1	IGH1
4	1	IGPE	24	1	IGRP	44	- 1	IGW5	64	0	ORZH
- 5	_	IGPC	25	_	IGOC	45	-	D.G	65	0	OR00
6	-	A.G P	26	-	A.VDD C	46	1/0	BMY1	66		IGRC
7	1	IGZV	27	0	000	47	1/0	BMY2	67		IYC8
8	0	OZVD	28	0	OCVG	48	1/0	BMY3	68		IYC7
9	0	OZPS	29	-	ICVR	49	1/0	BMY4	69	1	IYC6
10	_	IGZP	30	0	OCIR	50	1/0	BMY5	70	T	IYC5
11		D.VDD	31	-	A.G C	51	1/0	BMY6	71	1	IYC4
12	1/0	BMC1	32	0	OCVB	52	1/0	BMY7	72		IYC3
13	1/0	BMC2	33	0	OYVB	53	1/0	BMY8	73		IYC2
14	1/0	вмсз	34	-	A.G Y	54	-	D.VDD	74	T.	IYC1
15	1/0	BMC4	35	0	OYIR	55	ı	IGAC	75	-	D.G
16	1/0	BMC5	36	-	IYVR	56	1	IGL3	76	0	OADC
17	1/0	BMC6	37	0	OYVG	57	-	IGL2	77	ī	IGNP
18	1/0	BMC7	38	0	OYIO	58	1	IGL1	78	1	IGBE
19	1/0	BMC8	39	-	A.VDD Y	59	1/0	BASO	79		IGPF
20	-	D.G	40	-	IGW1	60	1	IGC2	80	1	IGCK



EXT/INT CLOCK SELECT

ESTABLISHES MAXIMUM AMPLITUDE VALUE FOR OCIO
(PIN 27)

V CORRELATION CIRCUIT ON/OFF

SINGLE WAVE DETECTION ON/OFF

(Y/C SEPARATION MODE)

V CORRELATION CIRCUIT SELECT
(Y/C SEPARATION MODE)

EXTERNAL CLOCK
DROPOUT CORRECTION

FLAT SECTION HORIZONTAL FILTER SELECT
(Y/C SEPARATION MODE)

SLEW MODE SET

LIMITER LEVEL ADJUST FOR Y SIGNAL COMB FILTER

NTSC/PAL FORMAT SELECT

OUTPUT ENABLE

VCO CONTROL

TEST

PLL SUBCARRIER

DELAY LINE LENGTH ADJUST

Y/C SEPARATION AND PLAYBACK MODE SELECT
(Y/C SEPARATION AND PLAYBACK MODE SELECT

Y COMB FILTER DEPTH ADJUST

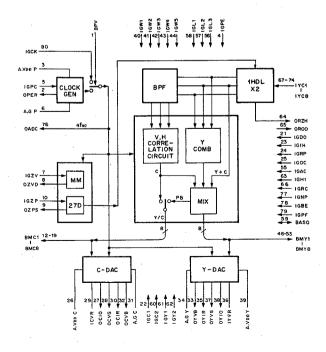
EDGE SECTION HORIZONTAL FILTER SELECT
(Y/C SEPARATION MODE)

1-BIT DELAY CIRCUIT

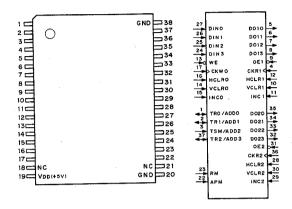
VCR HEAD SWITCHING

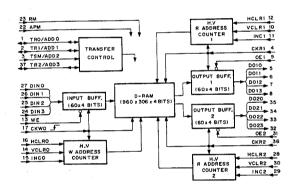
VIDEO SIGNAL

ESTABLISHES MAXIMUM AMPLITUDE VALUE FOR OYIO
(FIN 3B) INPUT BPV ICVR IGAC IGBE IGC1 IGC2 IGCK IGD0 IGH1 IGHI
IGL1 - IGL3
IGNP
IGOC
IGPC
IGPC
IGPE
IGPF
IGRC
IGRC
IGRC
IGRY
IGRY
IGW1 - IGW5
IGY1, IGY2 IGZP IGZV IYC1 - IYC8 IYVR CLOCK
CHROMA ANALOG SIGNAL
CONNECT A RESISTOR 16x LARGE THAN THE RESISTOR AT OCIO (PIN 27)
CONNECT TO DIGITAL GND WHICH HAS A CAPACITANCE OF UP TO 0.1 µF
CONNECT TO AN ANALOG POWER SUPPLY WHICH HAS A CAPACITANCE OF UP TO 0.1 µF
PLL ERROR
'O' IS DETECTED AT ALL INPUTS
1-BIT DELAY CIRCUIT
Y ANALOG SIGNAL
CONNECT A RESISTOR 16x LARGE THAN THE RESISTOR AT OYIO (PIN 38)
CONNECT TO DIGITAL GND WHICH HAS A CAPACITANCE OF UP TO 0.1 µF
CONNECT TO DIGITAL GND WHICH HAS A CAPACITANCE OF UP TO 0.1 µF
CONNECT TO A ANALOG POWER SUPPLY WHICH HAS A CAPACITANCE OF UP TO 0.1 µF
1-BIT DELAY CIRCUIT
VSYNC PERIOD MASK OUTPUT OADC OCIO OCIR OCVB OCVG OPER OROD ORZH OYIO OYIR OYVB OYVG OZPS OZVD INPUT/OUTPUT
BASO
: EDGE DETECTION LEVEL SELECT (Y/C SEPARATION MODE)
BMC1 - BMC8: CHROMA DIGITAL SIGNAL
BMY1 - BMY8; Y DIGITAL SIGNAL OTHER ANALOG GND FOR CHROMA D/A
ANALOG GND FOR VCO
ANALOG GND FOR Y D/A
ANALOG POWER SUPPLY FOR CHROMA D/A
ANALOG POWER SUPPLY FOR VCO
ANALOG POWER SUPPLY FOR Y D/A
DIGITAL GND
POWER SUPPLY FOR DIGITAL A.G C A.G P A.G Y A.VDD C A.VDD P A.VDD Y D.G D.VDD



CXK1206AM (SONY) FLAT PACKAGE C-MOS VIDEO FIELD MEMORY (960-COLUMNx306-ROWx4-BIT) - TOP VIEW -



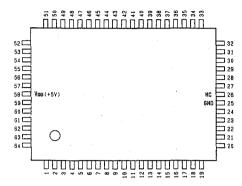


		DOG OD TOM TON
PIN	SIGNAL	DESCRIPTION
1	mpo (* ppo	W DODE O TRANSFER SYNC I/O. ADDRESS O INPUT
2	mn1 /1 nn1	n norm 7 mpancers SVNC T/O. ADDRESS 1 INPUT
3		
4	CKD1	TRANSFER SYNCHRONOUS MODE, ADDRESS 2 INTO THE PROPERTY SHIPT RORT 1 DATA 0 CUTPUT R PORT 1 DATA 0 CUTPUT R PORT 1 DATA 2 CUTPUT R PORT 1 DATA 3 CUTPUT
5	DOLO	P POPT 1 DATA O OUTPUT
6	DO11	R PORT 1 DATA 1 OUTPUT
7	DO12	R PORT 1 DATA 2 OUTPUT
	DO13	R PORT 1 DATA 3 OUTPUT
9	OEI	R PORT 1 OUTPUT ENABLE INPUT
10	VCLR1	R PORT 1 VERTICAL CLEAR INPUT
īĭ	INCL	R PORT 1 DATA 3 COUTPUT R PORT 1 CUTPUT ENABLE INPUT R PORT 1 VERTICAL CLEAR INPUT R PORT 1 LINE INCREMENT INPUT R PORT 1 HORIZONTAL CLEAR INPUT W PORT 0 WRITE ENABLE INPUT
12	HCLR1	R PORT 1 HORIZONTAL CLEAR INPUT
13	WE	W PORT 0 WRITE ENABLE INPUT
14	VCLRO	W PORT 0 VERTICAL CLEAR INPUT
15	INC0	W PORT 0 LINE INCREMENT INPUT
16	HCLR0	W PORT 0 HORIZONTAL CLEAR INPUT
17	CKW0	W PORT 0 SHIFT SIGNAL INPUT
18	NC	W PORT 0 LINE INCREMENT INPUT W PORT 0 HORIONTAL CLEAR INPUT W PORT 0 SHIPT SIGNAL INPUT (no connection) +5V INPUT
19	VDD	+5V INPUT
20	GND	GND (no connection) ADDRESS PRESET MODE INPUT RECURSIVE MODE ENABLE INPUT
21	NC	(no connection)
22	APM	ADDRESS PRESET MODE INPUT
23	RM	RECURSIVE MODE ENABLE INPUT
24	DIN3	W PORT O DATA 3 INPOT
25	DIN2	W PORT 0 DATA 2 INPUT
26	DINI	W PORT 0 DATA 2 INPUT W PORT 0 DATA 1 INPUT W PORT 0 DATA 0 INPUT R PORT 2 HORIZONAL CLEAR INPUT R PORT 2 LINE INCREMENT INPUT
27	DINO	W PORT O DATA O INPUT
28	HCLR2	R PORT 2 HORIZONIAL CEDAR INTO
29	INC2	R PORT 2 DINE INCREMENT INTO
30	VCLR2	R PORT 2 VERTICAL CLEAR INPUT R PORT 2 OUTPUT ENABLE INPUT
31	OE2	R PORT 2 DAMA 3 OUTFRIT
32	DO23	R PORT 2 DATA 3 OUTPUT R PORT 2 DATA 2 OUTPUT
33	DO22	R PORT 2 DATA 2 OUTPUT R PORT 2 DATA 1 OUTPUT
34 35	DO21	R PORT 2 DATA 0 OUTPUT
36		- none o curem cressi indim
37	TD2/ADD2	R PORT 2 TRANSFER SYNC I/O, ADDRESS 3 INPUT
	TVT/ WDD2	GND
38	GND	GND

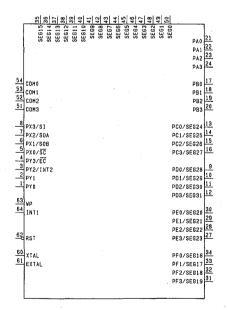
HODE S		ION			
	CONTROL INPUTS TS.TR/ADD			MODE	
RM	APM	TSM	TR 0-2	ADD 0-3	
0	0	0	OUT- PUT	-	NON RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE OUTPUT
0	0	1	IN- PUT	-	NON RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE INPUT
0	1	-	-	IN- PUT	NON RECURSIVE MODE, ADDRESS PRESET MODE
1	0	0	OUT- PUT	-	RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE OUTPUT
1	0	1	IN- PUT	-	RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE INPUT

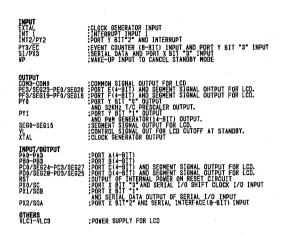
0:LOW LEVEL 1:HIGH LEVEL

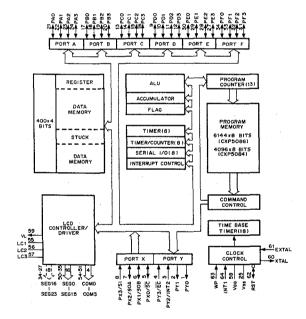
CXP5084H-645Q (SONY)
C-MOS 4-BIT MICROCOMPUTER
- TOP VIEW -



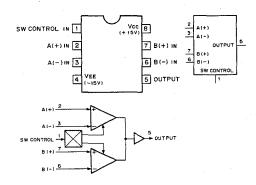
No	1/0	SIGNAL	No	1/0	SIGNAL	No	1/0	SIGNAL	No	1/0	SIGNAL
1	0	PYO	17	1/0	PB0	33	0	PF1/SEG17	49	0	SEG1
2	0	PY1	18	1/0	PB1	34	0	PF0/SEG16	50	0	SEGO
3	I	PY2/INT2	19	1/0	PB2	35	Ü	SEG15	51	0	COM3
4	I	PY3/EC	20	1/0	PB3	36	0	SEG14	52	0	COH2
5	1/0	PX0/SC	21	1/0	PA0	37	0	SEG13	53	0	COH1
6	1/0	PX1/SOB	22	1/0	PA1	38	0	SEG12	54	0	COMO
7	1/0	PX2/SOA	23	1/0	PA2	39	0	SE611	55	-	VLC1
-8	I	PX3/SI	24	1/0	PA3	40	0	SES10	56	-	VLC2
. 9	1/0	PD0/SEG28	25	-	GND	41	0	SE 9	57	-	VLC3
10	1/0	PD1/SEG29	26	-	NC	42	0	SEG8	58	-	YDD (+5Y)
11	1/0	PD2/SEG30	27	0	PE3/SEG23	43	0	SEG7	59	0	VL.
12	1/0	PD3/SEG31	28	0	PE2/SEG22	44	0	SEG6	60	0	XTAL
13	1/0	PC0/SEG24	29	0	PE1/SE021	45	0	SEG5	61		EXTAL
	1/0	PC1/SEG25	30	0	PEO/SEG20	46	0	SEG4	62	1/0	RST
15	1/0	PC2/SEG26	31	0	PF3/SEG19	47	0	SEG3	63	1	₩P
16	1/0	PC3/SE627	32	0	PF2/SEG18	48	0	SEG2	64	I	INTI



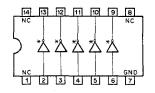




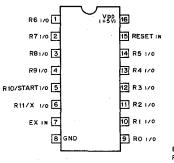
M5201FP (MITSUBISHI) FLAT PACKAGE DUAL OPERATIONAL AMPLIFIERS WITH SWITCHED OUTPUT - TOP VIEW -

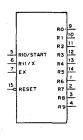


M54516F (MITSUBISHI) FLAT PACKAGE M54516P (MITSUBISHI) INVERTER WITH OPEN-COLLECTOR (DARLINGTON-CONNECTED TRANSISTOR ARRAY) TOP VIEW -

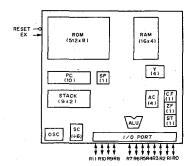


MB88201HPF-539N (FUJITSU) C-MOS 4-BIT MICROCOMPUTER - TOP VIEW -

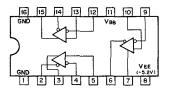




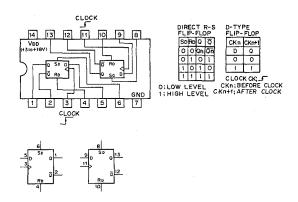
EX ; EXTERNAL X'TAL IN
RO-RI1; I/O PORT(R) IN/OUT
RESET ; RESET IN
START; STANDBY RELEASE IN
RI1/X ; EXT CLOCK IN/INT CLOCK OUT



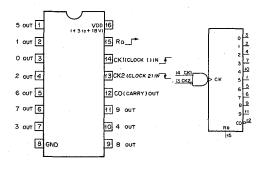
MC10H116M (MOTOROLA) FLAT PACKAGE ECL TRIPLE DIFFERENTIAL OR/NOR LINE RÉCEIVERS - TOP VIEW -



MC14013BF (MOTOROLA) FLAT PACKAGE C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET - TOP VIEW -



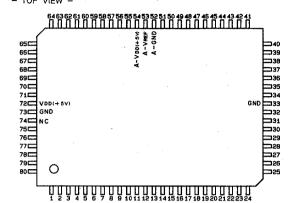
MC14017BF (MOTOROLA) FLAT PACKAGE C-MOS DECADE COUNTER/DIVIDER - TOP VIEW -



COUNT		NPUT\$	Г			C	UT	Pι	JT9	;				
COUNT	RD	CK=CK+CK2	9	8	7	6	5	4	3	2	1	0	8	
0	1	X	0	0	0	0	0	o	0	0	0	1	1	
0	0	-	0	0	0	0	0	0	0	0	0	1	1	
1	0		0	0	0	0	0	0	0	0	1	0	1	
2	0		0	0	0	0	0	0	0	1	0	0	1	
3	0	. -	0	0	0	0	0	0	1	0	0	0	1	
4	0		0	0	0	0	0	1	0	0	0	0	1	
5	0		0	0	0	0	1	0	0	o	0	0	0	
6	0		0	0	0	1	0	0	0	0	0	0	0	
. 7	0		ō	0	1	0	0	0	0	0	O	0	0	
8	0	_5_	0	1	0	0	0	0	0	0	0	0	0	
9	0	1	1	0	0	0	0	0	0	0	0	0	0	
NO COUNT	0	11	Г			AI/	_		ΔΝ	CE.			\neg	O ; LOW LE
10000141	0	0					,	J 1		J.			-	1 ; HIGH L

EVEL

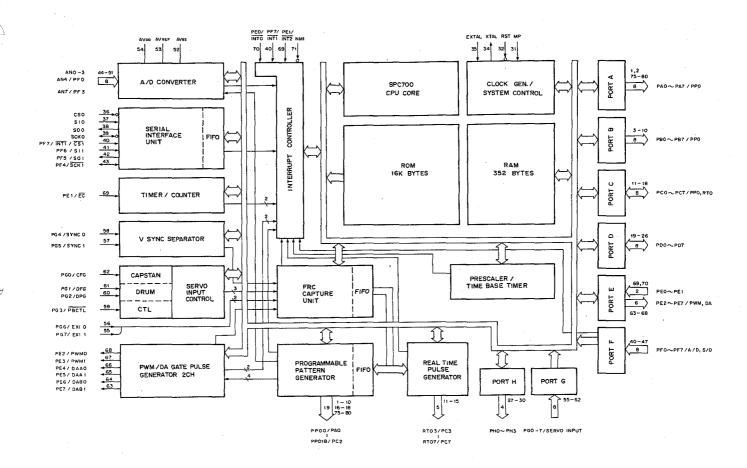
CXP80116-870Q (SONY) CXP80116-871Q (SONY) C-MOS 8-BIT MICROCOMPUTER - TOP VIEW -



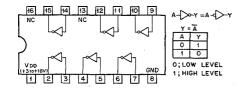
					$(V_{DD} = + 5V)$
PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	0	PA1/PPO1/A9	41	ı	PF6/Si1
2	0	PA0/PPO0/AB	42	1/0	PF5/SO1
3_	0	PB7/PPO15/A7	43	1,1/0	PF4/SCK1
4	0	PB6/PPO14/A6	44	- 1	PF3/AN7
5	0	PB5/PPO13/A5	45	1	PF2/AN6
6	0	PB4/PPO12/A4	46	1	PF1/AN5
7	0	PB3/PPO11/A3	47	1	PF0/AN4
8	0	PB2/PPO10/A2	48	,	AN3
9	0	PB1/PPO9/A1	49	1	AN2
10	0	PB0/PPO8/A0	50	1	AN1
11	1/0,0,1/0	PC7/RTO7/D7	51	ı	AN0
12	1/0,0,1/0	PC6/RTO6/D6	52		A-GND
13	1/0,0,1/0	PC5/RTO5/D5	53	-	A-VREF
14	1/0,0,1/0	PC4/RTO4/D4	54	_	A-Voo
15	1/0,0,1/0	PC3/RTO3/D3	55	· ·	PG7/EXI1
16	1/0,0,1/0	PC2/PPO18/D2	56	1	PG6/EXIO
17	1/0,0,1/0	PC1/PPO17/D1	57	1	PG5/SYNC1
18	1/0,0,1/0	PC0/PPO16/D0	58	1	PG4/SYNC0
19	1/0,0	PD7/HALT	59	1	PG3/PBCTL
20	1/0,0	PD6/BAQ	60	1	PG2/DPG
21	1/0,0	PD5/BAK	61	1	PG1/DFG
22	1/0,0	PD4/SYNC	62	1	PG0/CFG
23	I/O,O	PD3/C	63	0	PE7/DAB1
24	1/0,0	PD2/R/W	64	0	PE6/DAB0
25	1/0,0	PD1/WR	65	0	PE5/DAA1
26	1/0,0	PD0/RD	66	0	PE4/DAA0
27	0	PH3	67	0	PE3/PWM1
28	0	PH2	68	0	PE2/PWM0
29	0	PH1	69	1	PE1/EC/INT2
30	0	PHO	70	1	PE0/INTO
31	t	MP	71	i	NMI
32	1/0	RST	72	_	Voo
33	-	GND	73	-	GND
34	0	XTAL	74	_	NC
35		EXTAL	75	0	PA7/PPO7/A15
36	1	CSO	76	0	PA6/PPO6/A14
37	1	SIO	77	0	PA5/PPO5/A13
38	0	S00	78	0	PA4/PPO4/A12
39	I/O	SCKO	79	0	PA3/PPO3/A11
40	1	PF7/INT1/CS1	80	0	PA2/PPO2/A10

18		PBO/PPOB/AO	10	INI AN
17	PC1 /PP017 / D1	PB1/PP09/A1	9	BR
16	PC2 /PPO18 / D2	PB2/PP010/A2	8	CF
15	PC3 /RT03 / D3	PB3 / PP011/ A3	7.	CS DF
14	PC4 /RT04/D4	PB4 /PP012/ A4	6	DF
13	PC5 /RT05 / 05	PB5/PP013/A5	5	EC
12	PC6/RT06/06	PB6/PP014/A6	4	EX
11	PC7 / RT07 / D7	P87/PP15/A7	3	EX
	101711101751		2	HA IN
51	ANO	PA0 /PP00/A8	1	M
50		PA1 / PP01/A9	80	NN
49	ANI	PA2/PP02/A10	79	PB
48	ANZ	PA3/PP03/A11	78	PE
		PA4 / PP04 / A 12	77	PF PG
46	PFO / AN4	PA5/PP05/A13	76	SIC
45	PFI/AN5	PA6/PP06/A14	75	SY
44	PF27AN6	PA7/PP07/ A15	1/3	
27.7	PF3/AN7		l	OU
		PE2 / PWMO	68	A0 BA
62	-0076-6	PE3/ PWM1	67	Č
61	PG1 / DFG	PE4/ DAA O	66	DΑ
60	1 PG2 / DFG	PE5 / DAA I	65	DA
59	PG3 / PBCTL	PE6 / BA80	64	PA
58	PG4 / SYNC O	PE7 / BABI	63	PB PE
57	PG5 / SYNC 1			PH
56	PG6 / EX10	PHO	30	PP
55	PG7 / EX11	PHI	29	
		PH2	28	PΜ
26	PDO / RD	PH3	27	R/ RD
25	PD1 / WR		1	RT
24	P02 / R / W	MР	31	so
23	PD3 / C	RST	32	SY
22	PD4 / SYNC	500	38	WF
21	PD5 / BAK	SCKO	39	XT
20	PD6 / BRO	PF5/S01	42	INF
19	PD7 / HALT		43	DO
	PD7 / HACI	PF4/SCK1		PC
35	EXTAL		34	PD
		XTAL		RS SC
37	cso			50
	SID			
41	PF7 / INTI / CST			
	PF6 / SI1		1	
70	PE1 / EC / INT2		1	
	PEO / INTO			
∸q	NM1			

	INPUT	•
10.	AN0 - AN7	: ANALOG INPUTS
9	BRQ	; BUS REQUEST INPUT
8	CFG	: CAPSTAN FG INPUT
7	CS0,1 DFG	: CHIP SELECT INPUTS . DRUM FG INPUT
6	DPG	: DRUM PG INPUT
5	EC	: EVENT INPUT
	EXIO.1	: EXTERNAL INPUTS
4	EXTAL	: SYSTEM CLOCK GENERATE JOINT
3	HALT	: CPU STOP INPUT
2	INTO INT2	EXTERNAL OFFERING INPUTS
1_	MP	: MICRO PROSESSOR MODE INPUT
30	NMI	: NONMASKABLE OFFERING INPUT
79	PBCTL	; PB CTL PULSE INPUT
	PE0.1	: PORT E INPUTS
78	PF0 - PF7	: PORT F INPUTS
7.7.	PG0 - PG7	: PORT G INPUTS
76	SIO.1	: SERIAL DATA INPUTS
75	SYNC0,1	COMPOSITE SYNC INPUTS
	OUTDUT	
68	OUTPUT A0 - A15	: ADDRESS BUS OUTPUTS
67	BAK	: BUS ACKNOWLEGE OUTPUT
66	Č	: TIMING SIGNAL OUTPUT
	DAA0.1	: DA GATE PULSE OUTPUTS
55	DA80.1	: DA GATE PULSE OUTPUTS
54	PA0 - PA7	: PORT A OUTPUTS
53	PB0 - PB7	PORT B OUTPUTS
_	PE2 - PE7	: PORT E OUTPUTS
30	PH0 - PH3	: PORT H OUTPUTS
	PP00 - PP018	
29		GENERATOR OUTPUTS
28	PWM0,1	: PWM OUTPUTS
27	R/W RD	CPU MACHINE SYCLE
		: READ : REAL TIME PULSE OUTPUTS
51	SO0.1	SERIAL DATA OUTPUTS
32	SYNC	SYNC
	WR	: WRITE
38	XTAL	: SYSTEM CLOCK GENERATER OUTPUT
39	,,,,,,	. GTOTEM GEOCK GENERATER OBTFOT
12	INPUT/OUTPUT	
13	D0 - D7	: DATA BUS
	PC0 - PC7	; PORT C
34	PD0 - PD7	; PORT D
	RST	: RESET
	SCK0.1	: SERIAL CLOCK

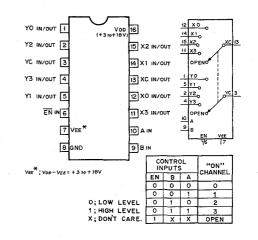


MC14049UBF (MOTOROLA) FLAT PACKAGE C-MOS INVERTING TYPE BUFFER/CONVERTER - TOP VIEW -

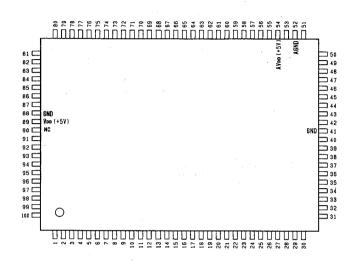


MC14052BF (MOTOROLA) FLAT PACKAGE HD14053BFP (HITACHI)

CMOS DUAL 4-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS – TOP VIEW –



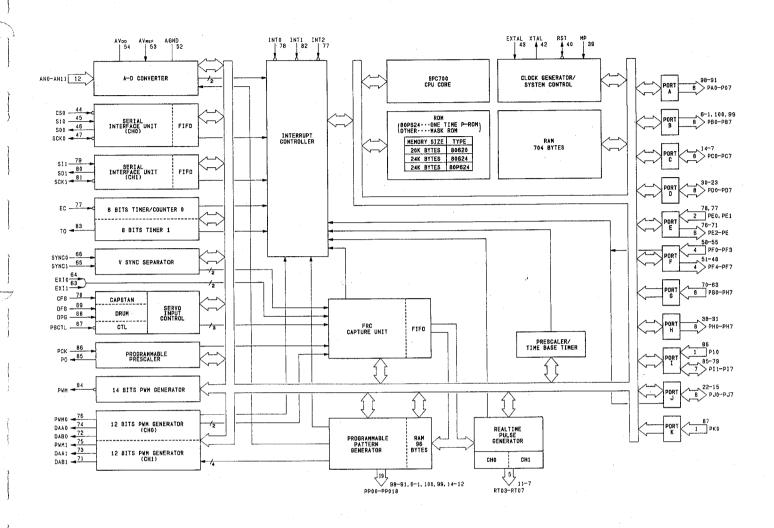
CXP80624-445Q (SONY) FLAT PACKAGE C-MOS 8-BIT 1-CHIP MICROCOMPUTER
- TOP VIEW -



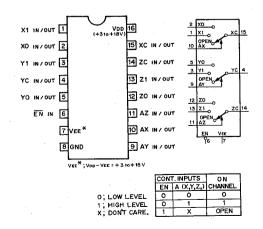
									(VDD =	AVDD = + 5V
PIN No.	1/0	SIGNAL	PIN No.	\o	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	0	PB5/PPO13	26	1/0	PD4	51	1/0	PF4/AN8	76	0	PE2/PWM0
2	0	PB4/PPO12	27	1/0	PD3	52	-	AGND	77		PE1/EC/INT2
3	0	PB3/PPO11	28	0	PD2	53	1	AVREF	78	_	PE0/INTO
4	0	PB2/PPO10	29	1/0	PD1	54	<u> </u>	AVDD -	79	1/0	PI7/SI1
5	0	PB1/PP09	30	1/0	PD0	55	1	PF3/AN7	80	1/0	PI6/SO1
6	0	PBO/PPO8	31	1/0	PH7	56	1	PF2/AN6	81	1/0	PI5/SCK1
7	1/0	PC7/RT07	32	0	PH6	57	1	PF1/AN5	82	1/0	PI4/INT1
8	1/0	PC6/RT06	33	0	PH5	58	1	PF0/AN4	83	1/0	PI3/TO
9	1/0	PC5/RT05	34	0	PH4	59	1	AN3	84	1/0	PI2/PWM
10	1/0	PC4/RTO4	35	0	PH3	60	1	AN2	85	1/0	PI1/PO
11	1/0	PC3/RT03	36	0	PH2	61	1	AN1	86	1	PIO/PCK
12	1/0	PC2/PPO18	37	0	PH1	62	1	AN0	87	1	PK0
.13	1/0	PC1/PPO17	38	0	PH0	63	- 1	PG7/EXI1	88	-	GND
14	1/0	PCO/PPO16	39	0	MP	64	1	PG6/EXIO	89	-	VDD
15	1/0	PJ7	40	1/0	RST	65	1	PG5/SYNC1	90		NC
16	1/0	PJ6	41	-	GND	66	1	PG4/SYNC0	91	0	PA7/PPO7
17	1/0	PJ5	42	0	XTAL	67	ı	PG3/PBCTL	92	0	PA6/PPO6
18	1/0	PJ4	43		EXTAL	68	1	PG2/DPG	93	0	PA5/PPO5
19	1/0	PJ3	44	_	CS0	69	T	PG1/DFG	94	0	PA4/PPO4
20	1/0	PJ2	45		SIO	70	1	PG0/CFG	95	0	PA3/PPO3
21	1/0	PJ1	46	0	S00	71	0	PE7/DAB1	96	0	PA2/PPO2
22	1/0	PJ0	47	1/0	SCK0	72	0	PE6/DAB0	97	0	PA1/PPO1
23	1/0	PD7	48	1/0	PF7/AN11	73	0	PE5/DAA1	98	0	PA0/PPO0
24	1/0	PD6	49	1/0	PF6/AN10	74	0	PE4/DAA0	99	0	PB7/PPO15
25	1/0	PD5	50	1/0	PF5/AN9	75	0	PE3/PWM1	100	0	PB6/PP014

92 PA6/PPOE DABO/PEE 79 93 PA5/PPOE DABO/PEE 79 94 PA4/PPOH DABO/PEE 79 95 PA3/PPOS DABO/PEE 79 96 PA2/PPOZ PWHO/PEZ 71 97 PA1/PPOI PET/ITTZPEE 71 98 PA6/PPOE PWHO/PEZ 71 99 PA6/PPOE 71 99 PA6/PPOE 71 99 PA6/PPOE 71 100 PB6/PPOI				
92 PA6/PPOS		PA7/PP07	DAB1/PE7	71
94 PA4/PPD14 DAA0/PE4 7 95 PA3/PPD3 PA1/PPD3 PA1/PPD3 72 96 PA2/PPD2 PA1/PPD1 EC/TNT2/PE1 7 97 PA1/PPD1 EC/TNT2/PE1 7 98 PA1/PPD15 EX11/PB7 6 100 PB6/PPD14 EX10/PB6 7 1 PB5/PPD13 SYNC1/PB5 6 1 PB5/PPD13 SYNC1/PB5 6 1 PB5/PPD14 PB6/PPD14 PB6/PPD14 PB6/PPD14 PB6/PPD15 PB6/PPD15 PB6/PPD16		PAG/PPOG		72
94 PA4/PD04 DAAO/PE4 77. 95 PA3/PD03 PHH/PE3 77. 96 PA2/PD02 PHHO/PE2 77. 97 PA1/PD01 EC/INT2/PE1 77. 98 PA0/PD00 INTO/PE0 77. 98 PB7/PD015 EXII/PB7 86. 98 PB7/PD015 EXII/PB7 86. 100 PB6/PD014 EXII/PB6 86. 2 PB4/PD012 SYNGO/PB6 86. 3 PB3/PD011 PBCTT_PB3 87. 4 PB2/PD010 DP6/PB2 86. 8 PB1/PD09 DP6/PB2 86. 8 PB1/PD09 DP6/PB2 86. 8 PB1/PD09 DP6/PB2 86. 8 PB1/PD09 DP6/PB3 87. 7 PC7/RT07 PH7 31. 8 PC6/RT08 PB6/PB0. 7 PC7/RT07 PH7 31. 9 PC6/RT08 PH6 32. 9 PC6/RT08 PH6 33.		PA5/PPO5		73
PART		PA4/PP04		74
96 PA2/PP01 PHP/PE2 77 97 PA1/PP01 EC/INT2/PE1 79 98 PA3/PP00 INT6/PE0 71 100 PB6/PP015 EX11/PB7 66 100 PB6/PP014 EX11/PB7 66 100 PB6/PP013 SYNC1/PB5 61 2 PB4/PP012 SYNC1/PB5 61 3 PB3/PP011 PBCTT_PB3 61 4 PB2/PP010 DP6/PE2 61 6 PB0/PP08 DP6/PE2 61 6 PB0/PP08 DP6/PE2 61 6 PB0/PP08 DP6/PE2 61 6 PB0/PP08 PB6/PP01 77 8 PC1/RT07 PH7 33 9 PC5/RT05 PH5 33 9 PC5/RT05 PH5 33 101 PC4/RT04 PH4 31 11 PC3/RT03 PH3 31 12 PC2/PP018 PH2 31 12 PC2/PP018 PH2 31 13 PC1/PP017 PH1 31 14 PC1/PP017 PH1 31 15 PC1/PP017 PH1 31 16 PC1/PP017 PH1 31 17 PC1/PP017 PH1 32 18 PC1/PP018 PH2 31 19 PC1/PP017 PH1 31 10 PC1/PP017 PH1 31 11 PC1/PP017 PH1 31 12 PC2/PP018 PH2 31 12 PC2/PP018 PH2 32 13 PC1/PP017 PH1 31 14 PC1/PP017 PH1 31 15 PC1/PP017 PH1 31 16 PC1/PP017 PH1 31 17 PC1/PP017 PH1 31 18 PC1/PP018 PH2 31 29 PD1 SCKT/P15 81 20 PD4 SCKT/P15 81 21 PC2/PP018 PH2 92 22 PD1 90 PCK/P10 84 23 PD1 90 PCK/P10 84 24 XTAL PJ4 14 43 EXTAL PJ4 14 44 CSD PJ1 22 44 CSD PJ1 22 45 SCKTAL PJ4 14 46 SCD PJ1 22 46 SCD PJ1 22 47 SCKTAL PJ4 14 47 SCCC PJ2 22 48 SCKTAL PJ4 14 48 SCD PJ1 22 49 SCKTAL PJ4 14 46 SCD PJ1 22 47 SCCC PJ2 SCCC PJ2 14 47 SCCC PJ2 SCCC PJ2 14 48 SCD PJ1 22 49 SCCC PJ2 14 40 SCD PJ1 22 40 SCCC PJ2 14 40 SCD PJ1 22 41 SCCC PJ2 14 41 SCD PJ2 14 41 SCD PJ2 14 42 SCD PJ2 14 41 SCD P	95	PA3/PPD3	_	75
97 PAI/PPD1	96			76
98 PR0/PP00 INTO/PE0 II 98 PR7/PP015 EX11/PP7 E 100 PB6/PP014 EX10/PB6 E 1 PB5/PP013 SYNC1/PB6 E 1 PB5/PP013 SYNC1/PB6 E 2 PB4/PP012 SYNC0/PB6 E 5 PB1/PP01 PFCTL/PB3 E 6 PB0/PP08 DPG/PE0 E 7 PC7/RT07 PH7 S 8 PC6/RT08 PH6 S 9 PC5/RT05 PH5 S 9 PC5/RT05 PH5 S 10 PC4/RT04 PH4 S 11 PC2/RT03 PH3 S 12 PC4/PP014 PH4 S 11 PC2/PP018 PH2 S 12 PC2/PP018 PH2 S 13 PC1/PP017 PH1 S 14 PC2/PP018 PH2 S 25 PC5/RT05 PH6 S 15 PC1/PP017 PH1 S 16 PC2/PP018 PH2 S 26 PC2/PP018 PH2 S 27 PC1/PP017 PH1 S 28 PC1/PP017 PH1 S 29 PC1/PP017 PH1 S 20 PC1/PP017 PH1 S 20 PC1/PP017 PH1 S 21 PC1/PP017 PH1 S 22 PC1/PP017 PH1 S 23 PC1/PP017 PH1 S 25 PC1/PP017 PH1 S 26 PC1/PP017 PH1 S 27 PC1/PP017 PH1 S 28 PC1/PP017 PH1 S 29 PC1/PP017 PH1 S 20 PC1/PP018 PC1	97			77
B9 PB7/PP015	98			78
100 PB6/PP014 EXIV/PB6 EX		FAUTFFOU	INTOTPED	
100 PBB/PP014 EXIL/PP6 E	99	007/00016	5W14 (007	63
BB/PP013	100			64
SYNC1/P65 STYNC1/P65 S	1			65
BB3/PPD11 PECTLY-P63 5: 4				_
BRSP/PD10 DP6/P62 6				
SEZ-PPOIS DPG-PCE 50	4			
B PBO/PPOB PBO/P	-		DPG/PG2	
PROFEST PROF	-		DPG/PG1	
B PCF/RTOB PHF S	∸	PB0/PP08	DPG/P60	//
B PCF/RTOB PHF S	. ,			
PLO	-		PH7	_
10 PC4/RT04 PH4 9		PC6/RTD6	PH6	
11 PCA/RTOS PHS 3 12 PCA/RTOS PHS 3 13 PCA/RTOS PHS 3 14 PCA/RTOS PHS 3 15 PCA/PDO16 PHS 3 16 PCA/PDO16 PHS 3 24 PDS SCKT/P15 ES PDS SCKT/P15 ES PDS SCKT/P15 ES PDS PDS PDS PDS PDS PDS PDS PDS PDS PD		PC5/RT05	PH5	
12 PCZ/PPO18		PC4/RT04	PH4	
13 PC1/PPD17 PH1 3 14 PC1/PPD17 PH1 3 15 PC1/PPD16 PH0 31 22 PD1 S11/P17 7 24 PD6 S01/P16 8 25 PD5 SCK1/P15 8 26 PD4 INT1/P14 6 27 PD3 TOYP13 8 28 PD1 PW1/P12 8 29 PD1 PW1/P12 8 29 PD1 PW1/P12 8 30 PD0 PW1/P12 8 30 PD0 PK1/P10 8 40 RST PD6 PT1 PD7 1 42 XTAL PJ6 1 43 EXTAL PJ6 1 44 CS0 PJ1 2 45 CS0 PJ1 2 46 CS0 PJ1 2 47 CS0 PJ1 2 48 CS0 PJ1 2 49 CS0 PJ1 2 46 CS0 PJ1 2 46 CS0 PJ1 2 47 CS0 PJ1 2 48 CS0 PJ1 2 48 CS0 PJ1 2 48 CS0 PJ1 2 49 CS0 PJ1 2 46 CS0 PJ1 2 46 CS0 PJ1 2 47 CS0 PJ1 2 48 CS0 PJ1 2 48 CS0 PJ1 2 49 CS0 PJ1 2 49 CS0 PJ1 2 40 CS0 PJ1 2 40 CS0 PJ1 2 40 CS0 PJ1 2 41 CS0 PJ1 2 42 CS0 PJ1 2 44 CS0 PJ1 2 45 CS0 PJ1 2 46 CS0 PJ1 2 47 CS0 PJ1 2 48 CS0 PJ1 2 49 CS0 PJ1 2 40 CS0 PJ1 2 40 CS0 PJ1 2 40 CS0 PJ1 2 41 CS0 PJ1 2 42 CS0 PJ1 2 45 CS0 PJ1 2 46 CS0 PJ1 2 47 CS0 PJ1 2 48 CS0 PJ1 2		PC3/RT03	PH3	
PHI SI PHI PHI SI PHI SI PHI PHI SI PHI PHI SI PHI PHI SI PHI		PC2/PP018	PH2	36
23 P07 S11/P17 Z 24 P06 S01/P16 8 25 P05 SCK1/P15 8 26 P04 INT1/P14 8 27 P03 T06/P13 8 29 P01 P04/P12 8 29 P01 P06/P13 30 P00 PCK/P10 30 P00 PCK/P10 40 RST P46 16 41 EXTAL P44 15 42 XTAL P44 15 43 EXTAL P44 15 44 CSO P41 24	\neg	PC1/PP017	PH1	37
23 PD7 S11/P17 75 24 PD6 S01/P16 80 25 PD6 S5CK1/P15 81 26 PD4 INTIVELY 81 27 PD3 70/P13 83 28 PD2 PWH/P12 82 29 PD1 POF PD7 15 30 PD0 PCK/P10 86 88T PD6 1 88T PD6 1 44 CS0 PD1 2 44 CS0 PD1 2 45 STAL PD4 15 46 CS0 PD1 2 47 CS0 PD1 2 48 STAL PD4 15 48 STAL PD4 15 48 STAL PD4 15 49 STAL PD4 15 40 STAL PD4 15 41 STAL PD4 15 42 STAL PD4 15 43 STAL PD4 15 44 SS0 PD1 2 45 STAL PD4 15 46 SS0 PD1 2 46 SS0 PD1 2 47 SS0 PD1 2 48 STAL PD4 15 48 STAL PD4 15 49 SS0 PD1 2 40 SS0 PD1 2 40 SS0 PD1 2 41 SS0 PD1 2 42 STAL PD4 15 44 SS0 PD1 2 45 SS0 PD1 2 46 SS0 PD1 2 47 SS0 PD1 2 48 SS0 PD1 2 48 SS0 PD1 2 49 SS0 PD1 2 40 SS0 PD1 2 40 SS0 PD1 2 40 SS0 PD1 2 41 SS0 PD1 2 42 SS0 PD1 2 44 SS0 PD1 2 45 SS0 PD1 2 46 SS0 PD1 2 47 SS0 PD1 2 48 SS0 P	14	PCO/PPO16	PHO	38
24 PDF SIT/PIF 6	- 1			
PDP SOIL/PIG SOI		PD7	SI1/PI7	79
25 PD5 SCRI/P15 8		PD6		80
26 PP4 INTT/P14 82 27 PP3 TOP13 TOP13 83 28 PP02 PWH/P12 84 29 PP1 PP7 PP1 85 30 PD0 PPK/P10 86 40 PP7 PP7 PP7 PP7 PP7 PP7 PP7 PP7 PP7 PP		PD5		81
27 ppg 7 77/11g 82 ppg 7 77/21g 82 ppg 7 7 7 7 8 ppg 7 8 ppg 7 9 ppg 7				82
PD2 PWN/P12 B4				83
29 PD1				84
30 PD0 PCK/210 86 39 MP	29	==		85
39 HP	30			86
40 RST PJ6 IE 42 XTAL PJ3 IE 43 EXTAL PJ3 IE 44 CS0 PJ1 21 45 CS0 PJ1 21		,	PGK/PIU	\Box
40 RST PJ6 IE 42 XTAL PJ3 IE 43 EXTAL PJ3 IE 44 CS0 PJ1 21 45 CS0 PJ1 21	39	ND .		15
42 XTAL PJS 12 43 EXTAL PJS 16 46 CSD PJ 12 46 CSD PJ 12 47 CSD PJ 12 48 CSD PJ 12				16
42 XTAL PJ4 14 P		K21		17
43 EXTAL PJ3 11 PJ2 27 PJ3 12 PJ2 27 PJ3 12	42			
44 CS0 PJ1 21 45 CS0 PJ1 27 27 27 27 27 27 27 27 27 27 27 27 27				
44 CS0 PJ1 22		EXTAL		_
45 SIA 15 49 A A A A A A A A A A A A A A A A A A	4.			
======================================	77		PJi	_
46 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40	810 7 8 8 4 8 5 1 1 9	PJ0	22
45 SOO \$55555555		500 75555555	a # .	
40 SCK0 AM 170 PG 44 AM 170 PG	±-′q	SCKO E E E E E E E E E E E E E E E	S N N PK0	87
48 49 50 51 55 56 57 58 59 60 61 62 52 53 54	l			I

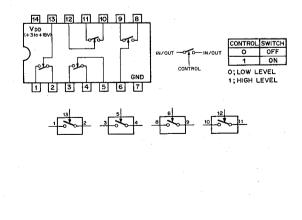
INPUT ANO - AN11 AVREF CFG CSO DPG,DFG EC EXIOLEXI1 EXTAL INTO - INT2 PBCTL PCK PEO,PE1 PFO - PF3 PG0 - PG7 PIO SIO.SI) SYNCO.SYNC1	: A-D CONVERTOR'S ANALOG INPUTS : A-D CONVERTOR'S REFERENCE VOLTAGE INPUT : CAPSTAN FG INPUT : SERIAL INTERFACE CHANNLE 0 SELECT INPUT : DURM PG AND FG INPUTS : EVENT CONTROL INPUT FOR TIMER/COUNTER : FRC CAPTURE UNIT'S EXTERNAL INPUTS : CRYSTAL CONNECTION OR EXTERNAL CLOCK INPUT : FOR SYSTEM CLOCK GENERATOR : INTERRUPT REQUEST INPUTS (FALLING EDGE ACTIVE) : PLAYBACK CTL PULSE INPUT : PLAYBACK CTL PULSE INPUT : PRESCALER'S EXTERNAL CLOCK INPUT : INPUTS OF PORT E (PE2 – PE7 : OUTPUTS) : INPUTS OF PORT F : INPUTS OF PORT F : INPUTS OF PORT I (PI1 – PI7 : INPUTS/OUTPUTS) : INPUT OF PORT I : INPUTS OF PORT K : SERIAL DATA INPUTS (CHANNLE 0 AND CHANNLE 1) : COMPOSITE SYNC SIGNAL INPUTS
OUTPUT DAA0,DAB0 DAA1,DAB1 MP PA0 - PA7 PB0 - PB7 PE2 - PE7 PF4 - PF7 PH0 - PP17 PP00 - PP018 PO PWM0,PWM1 RT03 - RT07 S00,S01 TO XTAL	: DA GATE PULSE OUTPUTS (12 BITS PWM CHANNLE 0) : DA GATE PULSE OUTPUTS (12 BITS PWM CHANNLE 1) : MICROPROCESSOR MODE INPUT : OUTPUTS OF PORT A : OUTPUTS OF PORT B : OUTPUTS OF PORT E (PEO. PEI : INPUTS) : OUTPUTS OF PORT F (PFO. PF3 : INPUTS) : OUTPUTS OF PORT H (NCH OPEN DRAIN OUTPUTS) : PROGRAMMABLE PATTERN GENERATOR OUTPUT : PRESCALER OUTPUT : PULSE WIDTH MODULATION OUTPUT : 2 BITS PULSE WIDTH MODULATION OUTPUTS : (CHANNLE 0 AND CHANNLE 1) : REALTIME PULSE GENERATOR OUTPUTS : SERIAL DATA OUTPUTS (CHANNLE 0 AND CHANNLE 1) : TIMER/COUNTER OUTPUT (DUTY 50%)
INPUT/OUTPUT PC0 - PC7 PD0 - PD7 PI1 - PI7 PJ0 - PJ7 RST SCK0,SCK1	: INPUTS/OUTPUTS OF PROT C (BIT PROGRAMMABLE) : INPUTS/OUTPUTS OF PROT D (4 BITS PROGRAMMABLE) : INPUTS/OUTPUTS OF PROT J (BIT PROGRAMMABLE, PIO : INPUTS) : INPUTS/OUTPUTS OF PROT J (BIT PROGRAMMABLE) : SYSTEM RESET INPUT AND POWER ON RESET OUTPUT : SERIAL CLOCK INPUTS/OUTPUTS (CHANNLE O AND CHANNLE 1)
OTHER AGND AVDD (+5V)	: A-D CONVERTOR'S GROUND : A-D CONVERTOR'S VDD

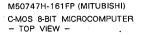


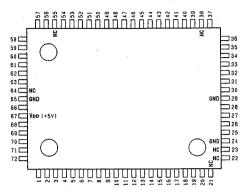
MC14053BF (MOTOROLA) FLAT PACKAGE C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS - TOP VIEW --



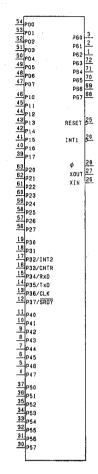
MC14066BF (MOTOROLA) FLAT PACKAGE C-MOS QUAD BILATERAL ANALOG SWITCH - TOP VIEW -



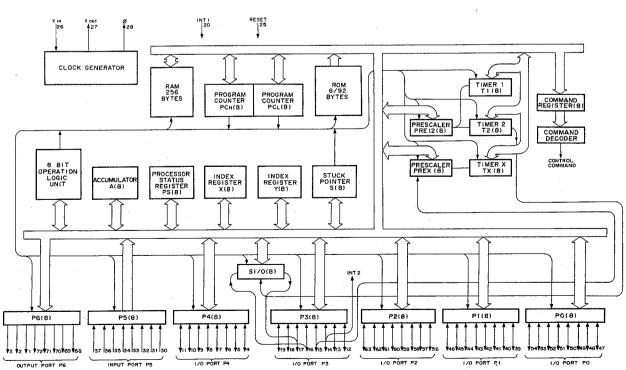




											(ADD =+2A)
Pia No	1/0	SIGNAL	Pia No	1/0	SIGNAL	Pin No	1/0	SIGNAL	Pin No	1/0	SIGNAL
1	0	P62	19	1/0	P30	37	1	P50	55	- 1	NC
2	0	P61	20	ī	INTI	38	-	NC	56	1/0	P27
3	0	P60	21	-	NC	39	1/0	P17	57	1/0	P26
4	1/0	P47	22	-	NC	40	1/0	P16	58	1/0	P25
5	1/0	P46	23	-	NC	41	1/0	P15	59	1/0	P24
6	I/0	P45	24	-	GND	42	1/0	P14	60	1/0	P23
7	1/0	P44	25	I	RESET	43	1/0	P13	61	1/0	P22
8	1/0	P43	26	I	XIN	44	1/0	P12	62	1/0	P21
9	1/0	P42	27	0	TUOX	45	1/0	P11	63	1/0	P20
10	1/0	P41	28	0		46	1/0.	P10	64	- ,	NC
11	1/0	P40	29	-	GND	47	1/0	P07	65	- :	GND
12	1/0	P37/SRDY	30	1	P57	48	1/0	P06	66	- (NC
13	1/0	P36/CLK	31	I	P56	49	1/0	P05	67	- 1	Vcc
14	1/0	P35/TxD	32	I	P55	50	1/0	P04	68	0	P67
15	1/0	P34/RxD	33	ī	P54	51	1/0	P03	69	0_	P66
16	1/0	P33/CNTR	34	1	P53	52	1/0	P02	70	0	P65
17	1/0	P32/INT2	35	I	P52	53	1/0	P01	71	0	P64
18	1/0	P31	36	1	P51	54	1/0	P00	72	0	P63

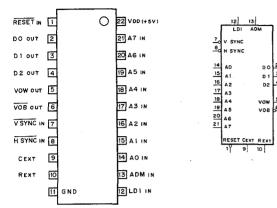






MB88303 (FUJITSU)

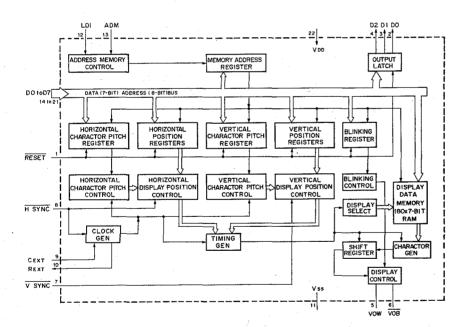
N-MOS PROGRAMMABLE TV DISPLAY CONTROLLER - TOP VIEW -



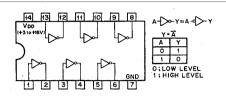
b3-b0	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
00	A	В		D	E	E	G	H	I	J	K		M	•		BLAN
01	2	0	P	Q	R	S	Ι	U	Ų	Ш	X	Y	Z	:		
10	0	1	2	3	4	5	6	7	8	9	?				BACK)
11	1	4	+	}	+		¥			8						

ADM
AO to A7
DO to D2
CEXT
LDI
VOB
VOW
REXT

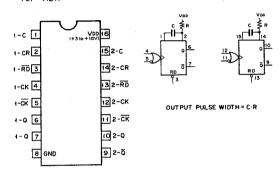
ADDRESS INCREMENT MODE
ADDRESS INPUT
DATA OUTPUT
EXT CAPACITOR FOR OSC
LOAD DATA AND INSTRUCTION
VIDEO BLACK OUT
VIDEO WHITE OUT
EXT RESISTOR FOR OSC

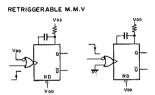


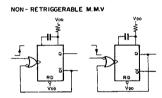
MC14069UBF (MOTOROLA) C-MOS INVERTER - TOP VIEW - MC3486N (TI)
QUAD RS-422/423 LINE RECEIVER WITH 3-STATE OUTPUTS
- TOP VIEW -



MC14538BF (MOTOROLA) FLAT PACKAGE C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS - TOP VIEW -







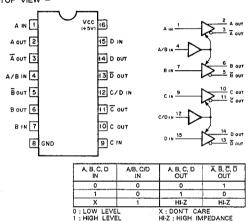
INPUTS OUTPUT OUTPUT INPUTS

B OUTPUT OUTPUT

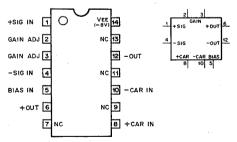
MC3487N (MOTOROLA)

QUAD RS-422 LINE DRIVER WITH 3-STATE OUTPUTS

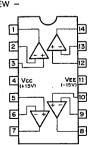
TOP VIEW -



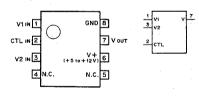
MC1496M (MOTOROLA) FLAT PACKAGE BALANCED MODULATOR/DEMODULATOR - TOP VIEW -

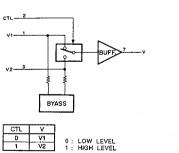


MC34184M (MOTOROLA) FLAT PACKAGE JFET INPUT OPERATIONAL AMPLIFIER - TOP VIEW -



NJM2233BM (JRC) FLAT PACKAGE 2-INPUT VIDEO SIGNAL SWITCH - TOP VIEW -





NJM4556M-A (JRC) FLAT PACKAGE RC4556MA (RAYTHEON) FLAT PACKAGE OPERATIONAL AMPLIFIER (WIDE BAND, DECOMPENSATED) — TOP VIEW —



NJM78L05A (JRC) + 5V (100mA) RC78L05A (RAYTHEON) + 5V (100mA) POSITIVE VOLTAGE REGULATOR





RC3414M (NJM) FLAT PACKAGE DUAL OPERATIONAL AMPLIFIER - TOP VIEW -

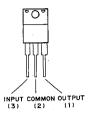


NJM4558M (JRC) FLAT PACKAGE NJM4562M (JRC) FLAT PACKAGE RC4558M (RAYTHEON) FLAT PACKAGE RC4560M (RAYTHEON) FLAT PACKAGE

DUAL OPERATIONAL AMPLIFIER - TOP VIEW -

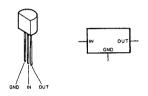


RC7805FA (RAYTHEON) + 5V POSITIVE VOLTAGE REGULATOR - FRONT VIEW -

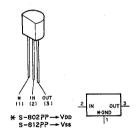




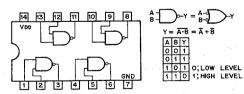
NJM79L05A (JRC) - 5V RC79L05A (RAYTHEON) - 5V NEGATIVE VOLTAGE REGULATOR (100mA)



S-80230AG (SEIKO ! AND E) - 3V S-81230AG (SEIKO ! AND E) + 3V C-MOS VOLTAGE REGULATOR

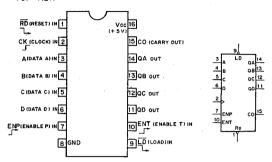


SN74HC00ANS (TI) FLAT PACKAGE C-MOS QUAD 2-INPUT NAND GATES -- TOP VIEW --



IOTE :	
TYPE	Vob
TC74AC00 TYPE	+2 to +5.5V
MC74HCT00N	+5V
74ACT00 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER -- TOP VIEW --



CON		INP		
RD	LD	ENP	ENT	MODE
0	×	×	×	RESET (SYNCHRONOUS)
1	o	×	x	PRESET (SYNCHRONOUS)
1	1	0	х	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

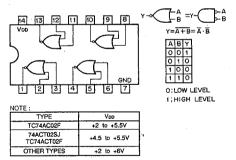
1;HIGH LEVEL X;DON'T CARE



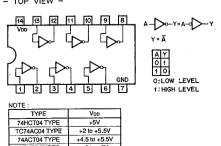
CO IS HIGH WHEN ENT INPUT IS HIGH AND COUNT IS "15".

COUNT		OUTPUTS						
COUNT	QD	QC	QB	QA				
0	0	0	0	0				
1	O	0	0	1				
2	0	0	1	0				
3	0	0	1	1				
4	0	1	0	0				
5	٥	1	0	1				
6	0	1	. 1.	0				
7	0	1	1	1				
8	1	0	0	0				
9	1	0	0	1				
10	1	0	1	0				
11	1	0	1	_ 1				
12	1	1	0	0				
13	1	1	0	1				
14	1	1	1	0				
15	1	1	1	1				

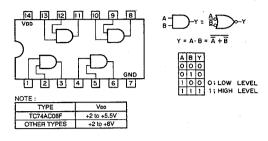
SN74HC02ANS (TI) FLAT PACKAGE C-MOS QUAD 2-INPUT NOR GATES - TOP VIEW --



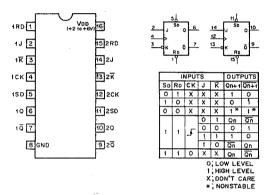
SN74HC04ANS (TI) FLAT PACKAGE C-MOS HEX INVERTERS - TOP VIEW -



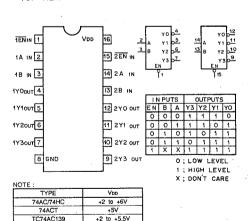
SN74HC08ANS (TI) FLAT PACKAGE C-MOS QUAD 2-INPUT AND GATES - TOP VIEW -



SN74HC109ANS (TI) FLAT PACKAGE C-MOS J-K FLIP-FLOP WITH DIRECT SET/RESET - TOP VIEW -

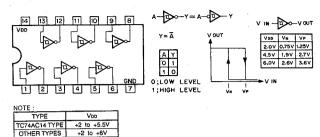


SN74HC139ANS (TI) FLAT PACKAGE C.MOS DUAL 2-TO-4 DECODER/DEMULTIPLEXER - TOP VIEW -

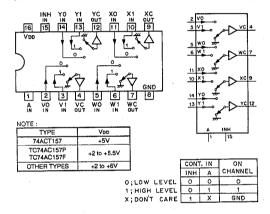


OTHER TYPES

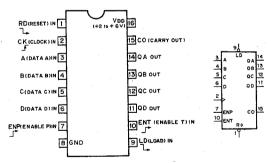
SN74HC14ANS (TI) FLAT PACKAGE C-MOS HEX SCHMITT TRIGGER INVERTERS - TOP VIEW -



SN74HC157ANS (TI) FLAT PACKAGE C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER - TOP VIEW -



C-MOS SYNCHRONOUS PRESETTABLE 4-BIT DECADE COUNTER - TOP VIEW -SN74HC160NS (TI)



CON		INP		MODE
RD	LD	ENP	ENT	MODE
0	×	×	×	RESET (ASYNCHRONOUS)
1	0	×	×	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1 1	COUNT

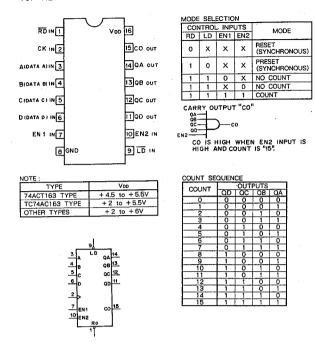
CARRY OUTPUT"CO"

CO IS HIGH WHEN ENT INPUT IS HIGH AND COUNT IS "9".

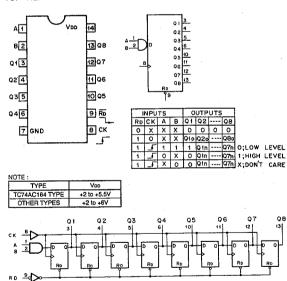
OUNT SEQUENCE									
COUNT	Q D	QC	QB	QA	CO				
0	0	0	0	0	0				
1	0	0	0	1	0				
2	0	0	1	0	0				
3	0	0	1	1	0				
4	0	1	0	0	0				
5	0	1	0	1	0				
6	0	1	1	0	0				
7	0	1	1	1	0				
8	1	0	0	0	0				
9	1 1	0	0	1	1				

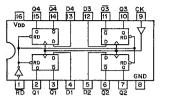
O LOW LEVEL

SN74HC163ANS (TI) FLAT PACKAGE C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER - TOP VIEW -



SN74HC164ANS (TI) FLAT PACKAGE C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER - TOP VIEW -





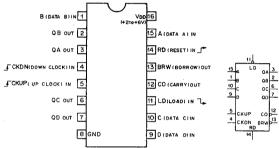


- 3	RD	č	D	Q	0
ĺ	0	×	X	0	1
	1	_5	4	1	0
	1	_5	0	0	1
	1	0	X	Q0	õ
(); L	ow	LE	VEI	-

1; HIGH LEVEL X; DON'T CARE Qo; NO CHANGE Qo; NO CHANGE

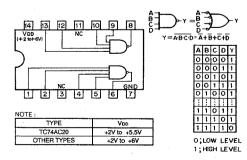
NOTE:	
TYPE	VDD
TC74AC175F	+2 to +5.5V
74ACT175 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6Y

SN74HC193ANS (TI) FLAT PACKAGE
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT UP/DOWN COUNTER
- TOP VIEW -

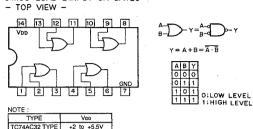


		Tolows	1	JU IDAIA I	27 IN			14	1
		Į							
CONTROL IN	PUT	11005	1		Γ	OUT	PUT		1
RD LD CKU	PICKON	MODE]	COUNT	QD	Q.C	QB	QA	1
1 X X	X	RESET TO ZERO] . [0	0	0	0	0	1 †
0 0 X	X	PRESET]	1	0	0	0	1	111
0 1 _5	1	UP COUNT		2	0	0	. 1	0	11 -
0 1 1	.5	DOWN COUNT		3	0	٥	1	1] []
0 1 1	1 1	NO COUNT		4	0	1	0	0]
			-	5	0	1	0	1	μĖ
				6	0	1	1	0	COUNT
CO = CKUP- QA	- QB - QC	· QD		7	0	1	1	1	
CKUP F	7 .	_		8	1	0	0	0	O WN
				9	1	0	0	1	350
	' 1	COUNT : 15		10	1	0	1	0	lī 📍
co —		(A: B:C:D:HIGH	13	11	1	0	1	1] []
ιο —				12	1	1	0	0	
				13	1	1	0	1	
8RW:CKDN-OA	- 0 B - 0 C - 6	55		14	1	1	1	0	
CKON 4	7 -	-		15	1	1	1	1]
BRW —	-	COUNT:O (A:B:C:D:LO	w)	O; LOW L 1; HIGH I X; DON'T	EVE	_			• •

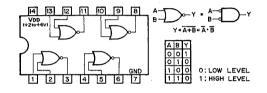
SN74HC20ANS (TI) FLAT PACKAGE C-MOS 4-INPUT POSITIVE-NAND GATE - TOP VIEW -



SN74HC32ANS (TI) FLAT PACKAGE C-MOS QUAD 2-INPUT OR GATES

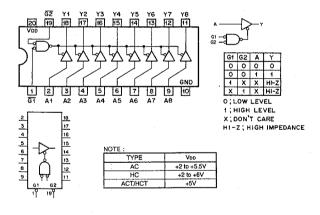


SN74HC36NS (TI) FLAT PACKAGE C-MOS 2-INPUT NOR GATE - TOP VIEW -



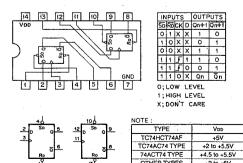
SN74HC541ANS (TI) FLAT PACKAGE

C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS - TOP VIEW -



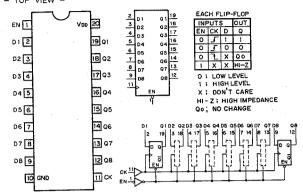
SN74HC74ANS (TI) FLAT PACKAGE

C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET - TOP VIEW -



12-40

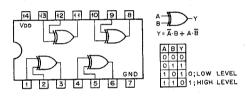
SN74HC574ANS (TI) FLAT PACKAGE C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP - TOP VIEW -



NOTE:	
TYPE	Voo
74AC/74HC	+2 to +6V
74ACT/74HCT	+ 5V
TC74AC574F	+ 2 to + 5.5V

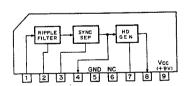
SN74HC86ANS (TI) FLAT PACKAGE TC74HC86AF (TOSHIBA) FLAT PACKAGE

C-MOS QUAD EXCLUSIVE OR GATES

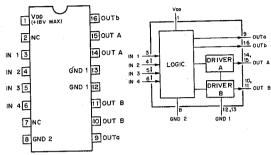


NOTE:	
TYPE	VDD
TC74AC86 TYPE	+2 to +5.5V
OTHER TYPES	+2 to +6V

TA7357AP (TOSHIBA)
SYNC SEPARATOR/HD PULSE GENERATOR
- SIDE VIEW -



TA7733F (TOSHIBA) FLAT PACKAGE FUNCTIONABLE BRIDGE DRIVER - TOP VIEW -



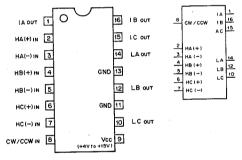
		INPL	JTS		T	OUTPUTS					
CONTROL	IN1	IN2	IN3	IN4	OUTA	OUTB	OUTa	ООТЬ	MODE		
	1	0	1	1	ON	-	ON	_	FWD		
2-INPUT	0	1	1	1	-	ON	-	ON	REV		
CONTROL	_ - -	1	1	1	ON	ON	-		BRAKE		
00,1,1,02	-	0	1	1	-	-	-		STOP		
	1	0	D	1	ON	_	ON	-	A ON		
1-INPUT	0	0	0	1	-	ON	_	ON	BON		
CONTROL	×	1	0	1	ON	ON	T -	_	AB ON		
				0			-	T -	INHIBIT		

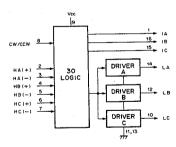
0 : LOW LEVEL 1 : HIGH LEVEL X : DON'T CARE

TA7745F (TOSHIBA) FLAT PACKAGE

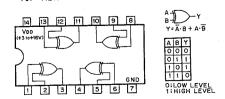
DC MOTOR DRIVER



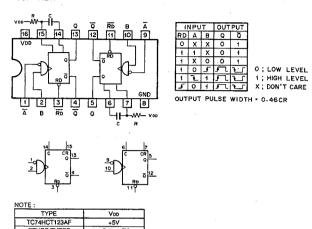




TC4030BFHB (TOSHIBA) FLAT PACKAGE C-MOS EXCLUSIVE OR GATE - TOP VIEW -

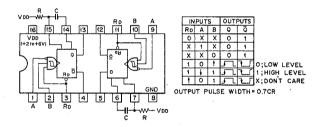


TC74HC123AF (TOSHIBA) FLAT PACKAGE C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS - TOP VIEW -



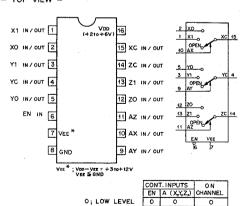
TC74HC221AF (TOSHIBA) FLAT PACKAGE

C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT



TC74HC4053AF (TOSHIBA) FLAT PACKAGE

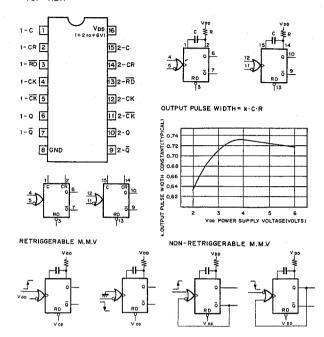
C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER – TOP VIEW –



1; HIGH LEVEL X; DON'T CARE.

TC74HC4538AF (TOSHIBA) FLAT PACKAGE

C - MOS DUAL RETRIGGERABLE / NON - RETRIGGERABLE MONOSTABLE MULTIVIBRATOR - TOP VIEW -

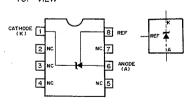


TL082CPS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (JFET INPUT) - TOP VIEW -

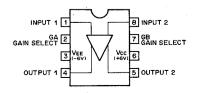
1 (+1.5 to +18V)
2 + 7
3 + 6

4

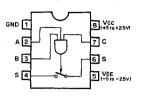
TL431CPS (TI) FLAT PACKAGE
ADJUSTABLE PRECISION SHUNT REGULATOR
- TOP VIEW -



TL592PS (TI) FLAT PACKAGE
DIFFERENTIAL VIDEO AMPLIFIER
- TOP VIEW -



TL610CPS (TI) FLAT PACKAGE MOS ANALOG SWITCH - TOP VIEW --





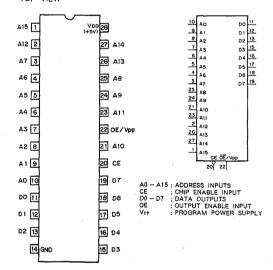
	U	<u> </u>	114						
	A	В	C] s					
	0	X	X	OFF(OPEN)					
1	Х	0	X	OFF(OPEN)					
	×	X	0	OFF(OPEN)					
ı	٦	7	1	ONICLOSED					
	O;LOW LEVEL								

O; LOW LEVEL I; HIGH LEVEL X; DON'T CARE

..,...

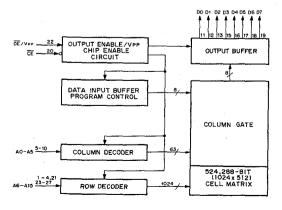
TMS27C512-20JL (TI)

C-MOS 512K (65,536x8 = 524,288)-BIT ERASABLE PROM - TOP VIEW -



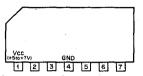
An	ÇE	OE/V _{PP}	Vpp	Dn	FUNCTION
Ain	0	0	+5٧	Dout	READ
Ain	0	1	+5V	HI-Z	OUTPUT DISABLE
Х	1	X	+5V	HI-Z	STANDBY
An	0	+12.5V	+67	Din	PGM
AIN	0	0	+6V	Dour	PGM VERIFY
X	1	+12 5V	+6V	HI-7	PGM INH

0:LOW LEVEL
1:HIGH LEVEL
X:DON'T CARE
HI-Z:HIGH IMPEDANCE



UPC1037HA (NEC)

DOUBLE-BALANCED MODULATOR
- SIDE VIEW -

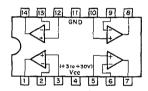




UPC311G2 (NEC) FLAT PACKAGE VOLTAGE COMPARATOR - TOP VIEW -



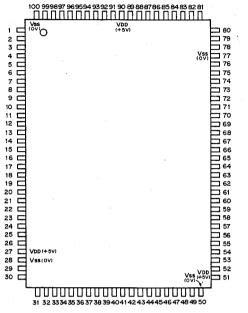
UPC324G2 (NEC) FLAT PACKAGE QUAD OPERATIOAL AMPLIFIERS - TOP VIEW -



UPC358G2 (NEC) FLAT PACKAGE DUAL OPERATIONAL AMPLIFIERS - TOP VIEW --

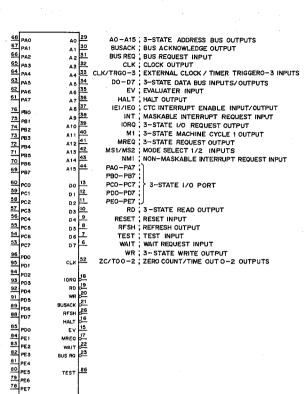


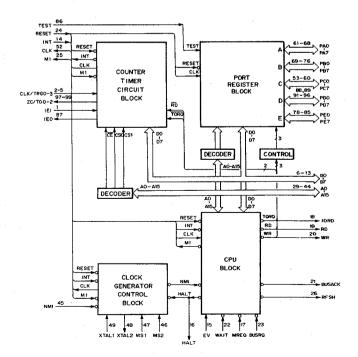
TMPZ84C011BF-6 (TOTHIBA)
C-MOS 8 BIT MICROPROCESSOR
- TOP VIEW --



5 CLK/TRGO
4 CLK/TRG1
3 CLK/TRG2
2 CLK/TRG3
1 IE1
14 INT
49 NMI

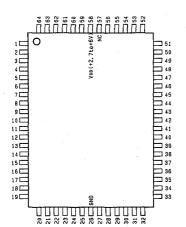
ZC/TO 0 99 ZC/TO 1 98 ZC/TO 2 97 RESET 24



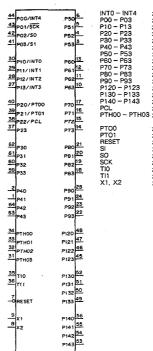


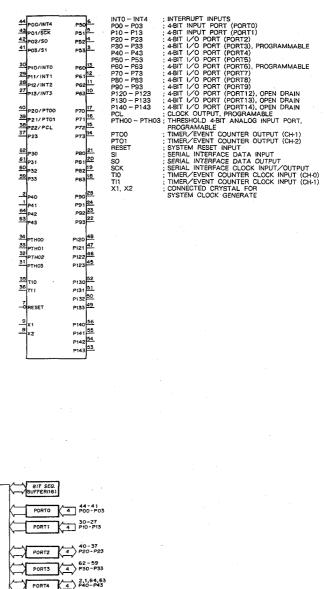
UPD75106G (NEC) UPD75108G (NEC)

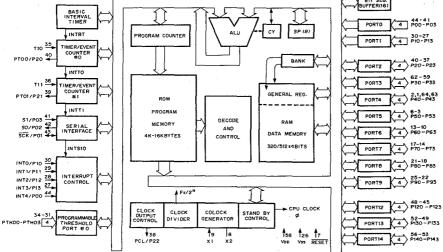
C-MOS 1 CHIP 4-BIT MICROCOMPUTER



									Vob	= (+	2.7to+6V)
Pin He	1/0	SIGNAL	Pin Ho	1/0	SIGNAL	Pin No	1/0	SIGNAL	Pin No	1/0	SIGNAL
1	1/0	P41	17	1/0	P70	33	I	PTH01	49	1/0	P133
2	1/0	P40	18	1/0	P83	34	I	PTH00	50	1/0	P132
3	1/0	P53	19	1/0	P82	35	I	TiO	51	1/0	P131
4	1/0	P52	20	1/0	P81	36	I	Tii	52	1/0	P130
5	1/0	P51	21	1/0	P80	37	1/0	P23	53	1/0	P143
6	1/0	P50	22	1/0	P93	38	1/0	P22/PCL	54	1/0	P142
7	I	RESET	23	1/0	P92	39	1/0	P21/PT01	55	1/0	P141
8	I	X2	24	1/0	P91	40	1/0	P20/PT00	56	1/0	P140
9	I	X1	25	1/0	P90	41	I	P03/SI	57		NC
10	I/0	P83	26	-	GND	42	1/0	P02/S0	58	ľ-	VDD
11	1/0	P62	27	1	P13/INT3	43	1/0	P01/SCK	59	I/0	P33
12	1/0	P61	28	1	P12/1NT2	44	I	POO/INT4	60	1/0	P32
13	I/0	P60	29	I	PI1/INT1	45	1/0	P123	61	1/0	P31
14	1/0	P73	30	I	P10/INTO	46	1/0	P122	62	1/0	P30
15	1/0	P72	31	I	PTH03	47	1/0	P121	63	1/0	P43
16	1/0	P71	32	I	PTH02	48	1/0	P120	64	1/0	P42







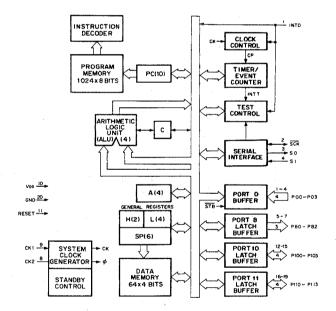
UPD7564CS (NEC)

C-MOS SINGLE CHIP 4-BIT MICROCOMPUTER - TOP VIEW -

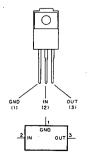
GND 20 P00/INT 0 IN 1 POI/SCK IN/OUT 2 19 P113 IN/OUT P02/S0 N/OUT 3 18 P112 IN/OUT P00/SCK P101 13 P02/S0 P102 15 17 P111 IN/OUT P03/SI IN 4 15 P103 IN/OUT P81 out 6 14 P102 IN/OUT P82 out 7 13 P101 IN/OUT ICK2 OUT 8 CK 1 IN 9 12 P100 IN/OUT 10 (VDD

III RESET CK1. CK2 INTO P00 - P03 P80 - P82 P100 - P103 P110 - P113 RESET SCK

SYSTEM CLOCK INPUTS
TESTABLE INPUT
PORT 0 IMPUTS/OUTPUTS
PORT 10 INPUTS/OUTPUTS
PORT 11 INPUTS/OUTPUTS
RESET INPUT
SEMIAL CLOCK
IMPUT/OUTPUT
SEMIAL DATA IMPUT
SEMIAL DATA OUTPUT
SEMIAL DATA OUTPUT

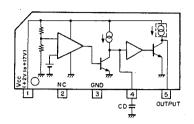


M5F7905L (MITSUBISHI) -5V NEGATIVE VOLTAGE REGULATOR (1A) - PRINTED SIDE VIEW -



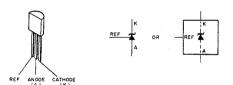
M51953BL (MITSUBISHI)

POWER RESET - SIDE VIEW -

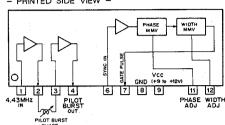


TYPE	OUTPUT						
	RESET POLARITY	CIRCUIT					
M51953AL	LOW	WITH CURRENT SOURCE					
M51953BL	LOW	OPEN COLLECTOR					
M51954AL	HIGH	WITH CURRENT SOURCE					
M51954BL	HIGH	OPEN COLLECTOR					

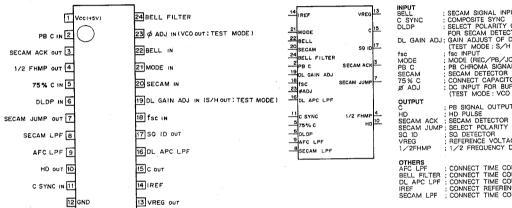
TL431CLP (TI) ADJUSTABLE PRECISION SHUNT REGULATOR



BX1262 (SONY) BX1262L (ROHM) PILOT BURST INSERTER - PRINTED SIDE VIEW -

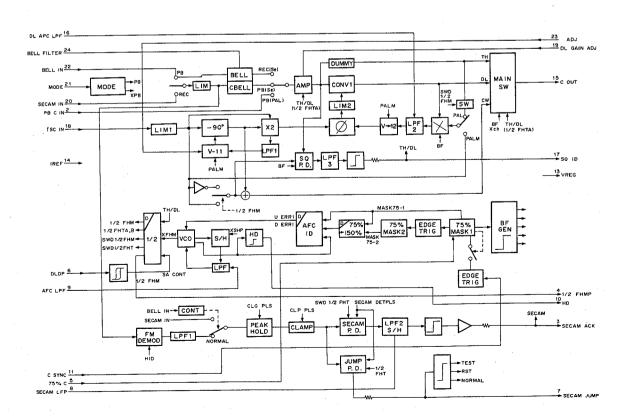


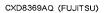
CXA1203N (SONY) FLAT PACKAGE
COLOR ALIGNMENT CORRECTOR FOR JOG (PAL)
- TOP VIEW -



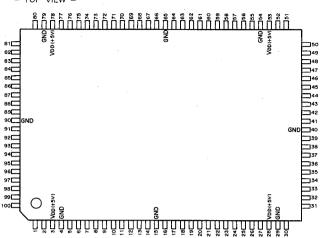
INPUT
BELL
C SYNC COMPOSITE SYNC
DLDP SELECT POLARITY OF 1/2 FIT PULSE
FOR SECAM DETECTOR (TEST MODE: AFC ID OUTPUT)
FOR SECAM DETECTOR (TEST MODE: AFC ID OUTPUT)
FISC GAIN ADJUST OF DL SIGNAL
(TEST MODE: S/H SERQUIT OUTPUT)
FISC FISC MODE: S/H SERQUIT OUTPUT)
FISC FISC MODE: S/H SERQUIT OUTPUT)
FISC PB CHROMA SIGNAL (PAL)
SECAM SECAM DETECTOR
FOR CONNECT CAPACITOR FOR CHARGE DISCHAGE
DATE OF THE SIGNAL OUTPUT
OUTPUT
C
DUTPUT
C
DUTPUT
C
DUTPUT
C
DESIGNAL OUTPUT
HD PULSE
SECAM ACK SECAM DETECTOR
SECAM JUMP, SELECT POLARITY OF 1/2 FHT PULSE
SIGNAL OUTPUT
SIGNAL OUTPUT
FOR BUSINAL OUTPUT
HD PULSE
SECAM JUMP, SELECT POLARITY OF 1/2 FHT PULSE
SIGNAL OUTPUT
OTHERS
C REFERENCE VOLTAGE
1/2FHIMP 1/2 FREQUENCY DIVIDE PULSE AFC

OTHERS
AFC LIFF
ELL FILTER: CONNECT TIME COUNSTANT OF LIPF FOR AFC
BELL FILTER: CONNECT TIME COUNSTANT OF LIPF FOR SECAM DETECTOR
INCLUDED THE COUNSTANT OF LIPF FOR SECAM DETECTOR
SECAM LIPF CONNECT TIME COUNSTANT OF LIPF FOR SECAM DETECTOR
SECAM LIPF CONNECT TIME COUNSTANT OF LIPF FOR SECAM DETECTOR





C-MOS PCM AUDIO DATA TIMING CONTROLLER - TOP VIEW -



PBRCHG ¹⁰		l i					13
RECRCHG11							70 SRCHG
PRRESWP 73	SELECTOR						
RFSWP 72		· ·					69 SRFSWP
RFSWP-		1.					
							80
١.	<u> </u>				_		
PBREC 84		1			Í		81 AFREC
AFREC 86					r		82 IWRITE
WRITE	MODE				<u> </u>		IWRITE
WRITE	CONTROL				\prec		~*
PBAREA 8	CONTROL	- !	1		_		75 PCMSEL
PBCSHT 9 ►			1		_		75 TACE!
1 1			1				74 HPCM
1	1111		1			T I I I	41
			J			1 1	SS-IAER
1 '			_			1	
ļ	MCLK,NTS	<u> </u>				1	37 SS - RFMD
1 ,			٠,		_	* * *	SS - REAR
PBRFSWP		1/276	1	1 1			64 SS - RAREA
RFSWP		(1/300)	1	1 1	- 1		55
47	DELAY	COUNTER		1 1	- 1	PULSE	55 SS - RAMP
SIEAR 47	COUNTER	(LCLK2)	1 .	DECODER	, GE	ENERATOR	52 SS - DRSW 27
MCI K	(RF SW5)		J		<u></u> X	AND	
	(KF SWS)		_	(DEC1)	'l s	ELECTOR	SS-FERS
LTEST171		DECODE	1		- 1	(TSEL)	SS -OUTCNT
C12311	i	COUNTER	上	1 1	- i		
89		(DCNT2)	Γ^{γ}	l 1	- 1		\$\$ - SET101
LJOGPB 89			_		_		S-SET1
JOGDATA 26		L					-47 S-IEAR
	Į					\	59 S-MDAR
PBDATA 25						L	49 S-RFMD
PBWCK ²³		. 11					48s - RFAR
PBWCK							S - RFAR
PBBCK 24	CH1 DATA	+ +					60 S-RAREA
RECWCK 20	CONVERTOR	→	\neg			<u> </u>	O C - DAMP
RECBCK 19	(AFR)		- I				
MCLK			- 1			L	33 e - EEDA
1		DATA	- 1				32 S-FERS
PBDATA			Г		1		S-FERS
PBWCK	ł	SELECT	איג <u>⊢</u>		ļ		46s- OUTCNT
		.	-			<u> </u>	45 5 - SET101
PBBCK	CH2 DATA	.1	-		1		 SET1
RECWCK	CONVERTOR			1 1	L		51 CH 1 DD
RECBCK	(AFR)		t				56 CH2PB
MCLK			1	1 -			
_		111	1	1			AFRDATA
			1	L			SPEUAIA
92.00 r							18 RECDATA
LDO-LD7	(050)						610000
RECSREF 100	(REC)	L					21 AFREC 1
PBWCK	DELAY						22 AFREC 2
NTCC	PULSE						AFREC 2
~~~~ <del>~~~</del>	GENERATOR	PB RF SWP			1		
L				(DETW)	1		
RSREFO2.1.8		PB WCK		PULSE	L		62 DETW
RSREF2		NTCC		NERATOR	1		- 02.11
<del></del>			7 ~-		ì		

									•		$(V_{DD} = +5 V)$
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGANL	PIN No.	<b>\</b>	SIGNAL	PIN No.	1/0	SIGNAL
1	0	RSREF1	26		JOGDATA	51	0	CHIPB	76	0	TCSEL
2	0	RSREF0	27	0	SSFERA	52	0	SSDRSW	77	0	MODE
3	-	Vpp	28	1	VDD	53	-	V _{DD}	78	-	Von
4		GND	29	-	GND	54	-	GND	79	-	GND
5	0	SMFEON	30	0	SSFERS	55	0	SSRAMP	80	0	IMODE
6	0	RSREF2	31	1	TCK1	56	0	CH2PB	81	0	IAFREC
7	1	FEON	32	1	SFERS	57	1	SDRSW	82	0	IWRITE
8		PBAREA	33	1	SFERA	58	1	SRAMP	83	1	NTCC
9		PBCSMT	34		TCK2	59	1	SMDAR	84	_	PBREC
10	1	PBRCHG	35		TEST1	60	_	SRAREA	85	1	WRITE
11	1	RECRCHG	36		TESTCO	61	1	PBEE	86		AFREC
12		TRST	37	0	SSRFMD	62	0	DETW	87	1	LAFR
13	0	SRCHG	38	0	SSRFAR	63	0	SSMDAR	88		INVERT
14	0	LCLK	39	0	SSET1	64	0	SSRAREA	89	1	LJOBPB
15	-	GND	40	-	GND	65	-	GND	90	- 1	GND
16	0	AFRDATA	41	0	SSIEAR	66	0	RECRESWP	91	T	MCLK
17	0	SPBDATA	42	0	SOUTCNT	67	0	LCLKST	92	1	LD00
18	1	RECDATA	43	0	SSET101	68	0	CNTLD	93	1	LD01
19	-	RECBCK	44	1	TLOAD	69	0	SRFSWP	94		LD02
20	_	RECWCK	45	-	SET1010	70	0	MRFSWP	95		LD03
21	1	AFREC1	46	I.	OUTCNT	71	1	LTEST1	96	1	LD04
22		AFREC2	47	1	SIEAR	72	1	RFSWP	97	1	LD05
23		PBWCK	48	1	SRFAR	73	1	PBRFSWP	98	1	LD06
24		PBBCK	49		SPFMD	74	0	HPCM	99	1	LD07
25		PBDATA	50		SET1	75	0	PCMSEL	100	T.	RECSREF

AFTER REC MODE IN
AFTER REC MODE IN
AFTER REC MODE I
AFTER REC MODE 1
AFTER REC MODE 2
FILL ERASE MODE 2
FILL ERASE MODE 1
FILL ERASE MODE MODE IN
JOG DATA IN
JOG DATA IN
JOG MODE IN
DELAY TEST MODE IN
RECS REFO TO 2 DELAY
DATA IN
JOG MODE IN
DELAY TEST MODE IN
MASTER CLOCK IN
MASTER CLOCK IN
MASTER CLOCK IN
PB PAL MODE IN
TC AREA IN
PB DATA LATCH CLOCK IN
PB PB PEM REROR DETECT
PULSE IN
PB DATA LATCH CLOCK IN
PB PA MODE IN
PB PR SW PULSE IN
PB DATA CHI/2 CLOCK IN
REC DATA IN
REC DATA IN
REC DATA IN
REC DATA IN
REC MODE IN
PB PR FS WP ULSE IN
PB DATA CHI/2 CLOCK IN
REC DATA IN
REC DATA IN
REC MODE IN
PB TRES WPULSE IN
PB DATA CHI/2 CLOCK IN
REC DATA IN
REC MODE IN
PB TRES WPULSE IN
SET 11 AREA IN
FULL ERASE MASK AREA IN
INDEX AREA IN
FOM AREA IN
RAMP PULSE IN
PCM AREA IN
RAMP PULSE IN
RET MODE CARRY IN
TEST CLOCK 1 IN
TEST CLOCK 1 IN
TEST MODE LOAD IN
RESET
TO WRITE MODE IN INPUT
AFREC
AFREC1
AFREC2
FEON
INVERT
JOGDATA
LAFR
LD00 TO LD07 LJOGPB LTEST1 MCLK NTCC OUTCNT PBAREA PBBCK PBCSMT 

RESET TO WRITE MODE IN

OUTPUT
AFRDATA
CH1PB
CH2PB
CNTLD
DETW
HPCM
IAFREC
IMODE
IWRITE
LCLK
LCLKST
MODE
MRESWP
PCMSEL
RECRESWP
RSREFO RSREF1 RSREF2 SMFEON SOUTCNT SPBDATA SRCHG SRFSWP SSDRSW SSET1 SSET101 SSFERA SSFERS SSIEAR SSMDAR SSRAMP SSRAREA SSRFAR SSRFAD TCSEL

AFTER REC DATA OUT

CH1 PB SELECT OUT

CH2 PB SELECT OUT

CH2 PB SELECT OUT

CH2 PB SELECT OUT

CH2 PB SELECT OUT

LOKATOWNING PULSE OUT

PCM DETECT OUT

INSERT PECT OUT

INSERT PB/REC MODE OUT

INSERT PB/REC MODE OUT

INSERT PB/REC MODE OUT

LOW CLOCK (1/273 (1/330))

LCLK START PULSE OUT

PB/REC MODE OUT

TC RF SW PULSE OUT

PCM INSERT MODE OUT

TRES SERVO REFERENCE PULSE

O OUT

REC SERVO REFERENCE PULSE

1 OUT

SELECTED PB DATA OUT

SELECTED PB DATA OUT

SELECTED PB DATA OUT

SELECTED MEMORY CHANGE

PULSE OUT

SELECTED MEMORY CHANGE

PULSE OUT

SELECTED DELAY SW PULSE OUT

SELECTED DELAY SW PULSE OUT

SELECTED DELAY SW PULSE OUT

SELECTED SETIOIO AREA OUT

SELECTED FULL ERASE AREA OUT

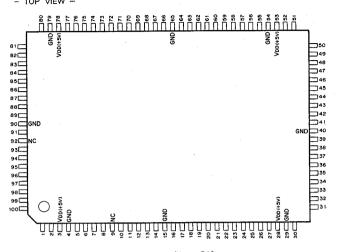
SELECTED FULL ERASE MASK

AREA OUT

SELECTED INDEX AREA OUT

: SELECTED FULL ERASE MASK AREA OUT : SELECTED INDEX AREA OUT : SELECTED PCM AREA OUT : SELECTED PCM AREA OUT : SELECTED PCM REC AREA : SELECTOR RF AREA OUT : SELECTOR RF MEA OUT : TC INSERT MODE OUT

PBRHG
111
73
PBRFSWP
RFSWP SRCHG 13 MRFSWP 70 SRFSWP 69 84 PBREC 86 AFREC 85 WRITE 8 PBAREA 9 PBCSMT IMODE 81
IAFREC 82
IWRITE 75
PCMSEL 76
TCSEL 74 HPCN SS-IFAR 91 MCLK 83 NTCC 71 LTEST1 SS-MDAR 63 SS-RFMD 64 SS-RAMP 55 52 47 S - IEAR
59 S - MDAR
48 S - RFMD
60 S - RAREA
59 S - RAREA
59 S - RAMP
57 S - DRSW
33 S - FERA
58 S - FERA
59 S - FERA
50 UTCNT SS-FERA SS-FERS OUTCN SS RFA SS-SET1010 S-SET DETW PSRFFO 2 45 S - SET1010 50 SET1 RSREF2 25 PBDATA 23 PBWCK 24 PBBCK 20 RECWCK 19 RECBCK CH1PB 51 CH2PB 56 AFRDATA 16 SPBDATA 17 18 RECDATA
61 PBEE
21 AFREC1
22 AFREC2 INVERT 88 LAFR 31 тск2 34 TESTCO 36
TLOAD 44 JOGPB OGDATA CNTLD 68 LCL



93	CAPFG									FL1
31	MCLK									FL2
97	HFGSH									- 1
94	LFGSEL									RDCK 26
95	LEXJOG									WRCK 27
96	IHJOG									
98 99	SDATA									ADRO 52
99	SCLK									ADR 1 51
100	scs									ADR2 50
										ADR3 49
70	PBCSMT									ADR4 48
72	PBAREA									ADRS 47
71	PBRFSWP									ADR6 46
	5.0									ADR7 45
60	РВВСК									ADR8
73	PBWCK									ADR 943
59	UPDN									ADR10 42
61	PBRCHG									ADR11 41
61 58	SINP									
										DATAO 30
20	RESET									DATA 1 31
20	TA .									DATA2 32
21	TB									DATA3 33
21 18	T)									DATA4 34
										DATA5 35
56	LOADI									DATA6 36
	2000									DATA7 37
69	NTCC									DATAS 38
										DATA9 39
77	SRSW1									SOUT 57
77	SRSW2									LJOG 5
	ono ne									HJOG 8
76	LPB									
	[-, 5									LSTOP 6
										HNORM 7
	*									ERBD1 12
										ERBD2
22	ADRSEL									ERDN 1
23	DTSEL									ERDN2
										WREN1
									_	WREN2
		Ŧ	£ £	×	88		_		5	FGSP1 88
	0-48466	HSERCH	MEMWR	WEM2WR	M2	9.	ğ	2	ADRSELO	FGSP2 89
	SP2 SP3 SP3 SP5 SP5 SP6	ξ	¥ ¥	Ä.,	žΞ	19 RDLD	우	ᇙ	¥	
	<u> </u>	75	1	6 6	1 20	2 2	in	1	V.	

							(	$V_{DD} = +5 \text{ V}$
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGANL	PIN No.	1/0	SIGNAL
1	0	FL1	36	1/0	DATA6	71	1	PBRFSWP
2	0	FL2	37	1/0	DATA7	72	-	PBAREA
3	_	Voo	38	1/0	DATA8	73	1	PBWCK
4	-	GND	39	1/0	DATA9	74		SRSW1
5	0	LJOG	40	-	GND	75	0	HSERCH
6	0	LSTOP	41	0	ADR11	76		LPB
7	0	HNORM	42	0	ADR10	77		SRSW2
8	0	HJOG	43	0	ADR9	78	_	Vod
9	- 1	NC	44	0	ADR8	79	-	GND
10	1	RESET	45	0	ADR7	80	0	SP7
11	0	ERDN1	46	0	ADR6	81	0	SP6
12	0	ERBD1	47	0	ADR5	82	0	SP5
13	0	ERDN2	48	0	ADR4	83	0	SP4
14	0	ERBD2	49	0	ADR3	84	0	SP3
15	-	GND	50	0	ADR2	85	0	SP2
16	0	WREN1	51	0	ADR1	86	0	SP1
17	0	WREN2	52	0	ADRO	87	0	\$P0
18	1	TI	53	-	Vao	88	0	FGSP1
19	0	TO	54	-	GND	89	0	FGSP2
20	Ti	ŤΑ	55	0	LOADO	90	-	GND.
21	1	TB	56	1	LOADI	91		MCLK
22	1	ADRSEL.	57	0	SOUT	92		NC
23	1	DTSEL	58	1	SINP	93	1	CAPFG
24	0	ADRSELO	59	1	UPDN	94	1	LFGSEL
25	0	SHLD	60	Ti	PBBCK	95	1	LEXJOG
26	0	RDCK	61	1	PBRCHG	96	1	1HJ0G
27	0	WRCK	62	0	RDLD	97	1	HFGSH
28	-	Von	63	0	MEM1RD	98	1	SDATA
29	T-	GND	64	0	MEM1WR	99	T	SCLK
30	1/0	DATA0	65	T -	GND	100	1	SCS
31	1/0	DATA1	66	0	MEMWR	101		
32	1/0	DATA2	67	0	MEM2WR	102		
33	1/0	DATAS	68	0	MEM2RD	103		
34	11/0	DATA4	69	1	NTCC	104		
35	1/0	DATA5	70	1	PBCSMT	105		

INPUT
ADRSEL
CAPFG
CAPSTAN FG
INJUNCT
CAPSTAN FG
INJUNCT
LEX.JOG
ITAPE SPEED MODE SELECT
HFOSH
H

OUTPUT

ADRSELO

ADRO-ADR11

TO MEMORY WR/RD SELECT

ADRO-ADR11

LIF ON/OFF, L: ON

H: JOG MODE

H: JOG MODE

H: CAPPG IS MORE THAN × 2 SPEEDS

LJGG

L-JOG SEARCH MODE

LOADO

START POINT OF WRITE DATA

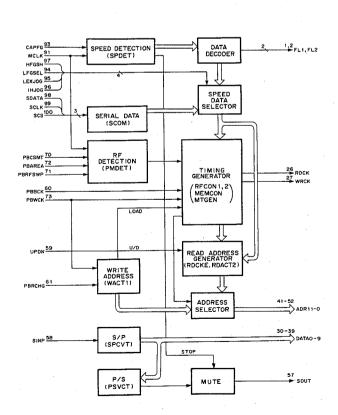
L: STOP

RDCK

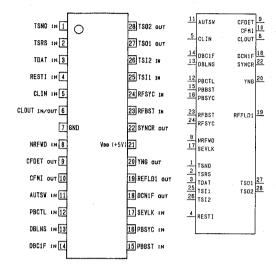
MEMORY WRJE CLOCK

MEMORY WRITE CLOCK

INPUT/OUTPUT
DATA0 - DATA9 : TO MEMORY DATA LINE



## CXD8371M (SONY) FLAT PACKAGE C-MOS COLOR FRAMING - TOP VIEW -



INPUT
AUTSW: AUTO MODE SWITCH
CLINE: REF SIDE 1ST FIELD OR DUB CONNECT 1ST FIELD
DBC1S: SUDE CONTROL NE SELECT
DBFWS: DUB CONNECT PLINE SELECT
DBFWS: SUDE SURST PULSE
PBCTL: PB SIDE CTL SIGNAL
PBSYC: PB SIDE COMPOSITE SYNC
REST: RESET IN
REST IREST IN
TEST IN
TISST IN

OUTPUT

CFDET : COLER FRAMING DETECT

CFM: COLER FRAMING DETECT (LATCH OUT)

DCNIF: PB SIDE 1ST FIELD OR DUB CONNECT 1ST FIELD

FFLD1: REF SIDE 1ST FIELD

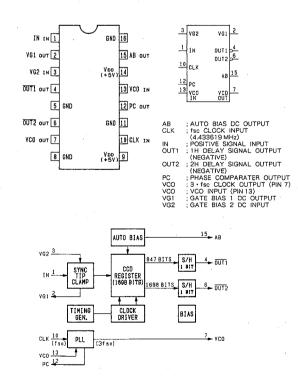
SYNCR: SYNCRO COMMAND

TSO1.2: TEST OUT

YNG: PB SIDE Y FRAMING DETECT

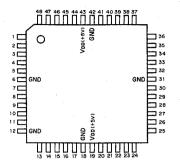
INPUT/OUTPUT
CLOUT ; CLOCK IN/OUT

CXL1506M (SONY) FLAT PACKAGE C-MOS CCD 1H/2H DELAY LINE FOR PAL VIDEO SYSTEM - TOP VIEW --

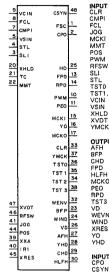


#### MB87647 (FUJITSU) FLAT PACKAGE

C-MOS AUTOMATIC FREQUENCY CONTROL (AFC)  $\sqrt{\text{SYNC}}$  SEPARATOR - TOP VIEW -

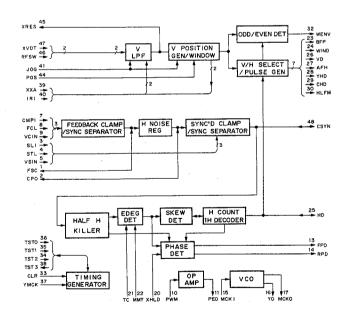


PIN A	SSIGN	IMENT									$(V_{DD} = + 5V)$
PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	1/0	FCS	13	0	FPD	25	0	HD	37	1	YMCK
2	1/0	CPO	14	0	RPD	26	0	VD	38	0	TST3
3	1	SLI	15		MCKI	27	0	AFH	39	1/0	XXA
4	1	STL	16	0	YO	28	0	YHD	40	1/0	IR1
5	1	VSIN	17	0	MCKO	29	0	CHD	41	1	JOG
6	-	GND	18	-	GND	30	0	HLFH	42	-	GND
7	1	CMPI	19	_	Voo	31	1	GND	43	-	Voo
8	- 1	FCL	20	- 1	XHLD	32	0	WEVN	44	Ī	POS
9	1	VCIN	21	0	TC	33	_	CLR	45	0	XRES
10	1	PWM	22		MMT	34	_	TST2	46	1	RFSW
11	0	PEO	23	0	BFP	35		TST1	47	1	XVDT
12		GND	24	0	WIND	36	l i	TSTO	48	0	CSYN

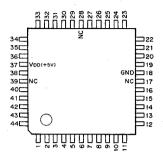


FCL JOG MCKI MMT POS PWM RFSW SLI STL TST0 TST1, 2	RF SW PULSE INPUT SYNC CLAMP SLICE LEVEL INPUT SYNC CLAMP SYNC CHIP LEVEL INPUT L:NORMAL/H:TEST MODE INPUT AFC LOCK PHASE COARSE ADJUST INPUTS
VCIN	: FEED BACK CLAMP VIDEO INPUT
VSIN	SYNC CLAMP VIDEO INPUT
XVDT	: H:AFC ERROR ACTIVE/L:AFC ERROR HOLD INPUT : V DETECT COMPOSITE SYNC INPUT
YMCK	: MASTER CLOCK INPUT
OUTPUT AFH 8FP CHD FPD HLFH MCKO PEO RPD TST3 VD WEVN	AFC H DRIVE OUTPUT  BURST FLAG PULSE OUTPUT  H SYNC OUTPUT FOR BURST DETECT  AFC SUB LOOP PHASE ERROR OUTPUT  1,721, (% 7.5 kHz) OUTPUT  CLOCK (VCO) INVERTER OUTPUT (9101,)  OP AMP OUTPUT  AFC MAIN LOOP PHASE ERROR OUTPUT  L:NORMAL, H:TEST MODE OUTPUT  VERTICAL SYNC DETECT OUTPUT  WRITE EVEN/ODD FIELD DETECT OUTPUT  WINDOW COMPARATOR OUTPUT FOR V-PLL  V DETECT LPF OUTPUT  CLOCK (VCO) INVERT OUTPUT  PEDESTAL CLAMP TIMING OUTPUT

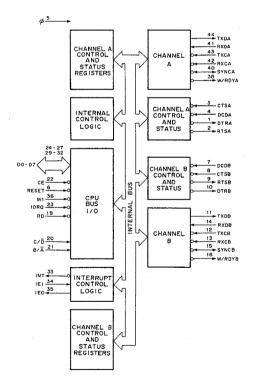
INPUT/OUTPUT
CPO : CLAMP PULSE INPUT/OUTPUT
CSYN : CLAMP SYNC SEPARATE INPUT/OUTPUT
FCS : FEED BACK CLAMP SYNC SEPARATE INPUT/OUTPUT
HD : AFC H DIRECT INPUT/OUTPUT
IRI : MONITOR PIN FOR TEST INPUT/OUTPUT
TC : AFC LOCK PHASE FINE ADJUST INPUT/OUTPUT
XXA : MONITOR PIN FOR TEST INPUT/OUTPUT



# Z84C4306FEC (ZILOG) C-MOS SERIAL INPUT/OUTPUT CONTROLLER - TOP VIEW -



								(VDD = + 5 V)
PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	V0	SIGNAL
1	0	DTRA	16	0	W/RDYB	31	1/0	D5
2	0	RTSA	17	-	NC	32	1/0	D7
3	i	CTSA	18	-	GND	33	0	INT
4		DCDA	19		RD	34	1	1EI
5	_	ø	20	Π.	C/D	35	0	1EO
6	1	RESET	21		B/A	36	1	М1
7		DCD8	22	Ī	CE	37	_	VDD
8	1	CTSB	23	1/0	IORQ	38	0	W/RDYA
9	0	RTSB	24	1/0	D6	39	_	NC
10	0	DTRB	25	1/0	D4	40	1/0	SYNCA
11	0	TXDB	26	1/0	D2	41		RXDA
12	1	TXCB	27	1/0	D0	42	1	RXCA
13	I	RXCB	28	-	NC	43	- 1	TXCA
14		RXDB	29	1/0	D1	44	0	TXDA
15	1/0	SYNCB	30	1/0	D3			



. 5		00	l ₂₇	INPUT	
_	ø		29	ø_ 8∕Ā	; SYSTEM CLOCK ; CHANNEL A OR B SELECT
22		D1 D2		c∕∂	CONTROL OR DATA SELECT
-6	RESET	D2	30	CE	; CHIP ENABLE
36	RESET	84	25	CTSA	; CLEAR TO SEND A
23	M1 IORQ			CTSB DCDA	CLEAR TO SEND B DATA CARRIER DETECT A
19	RD	95		DCDB	DATA CARRIER DETECT A
-0	RD	06	32	IEI	: INTERRUPT ENABLE INPUT
20		07	<del>-</del>	M1	; MACHINE CYCLE ONE
24	C/D			RD	READ CYCLE STATUS
4.1	B∕Ã ·		33	RESET	; RESET : RECEIVER CLOCKS A
24		INT	35	RXCB	: RECEIVER CLOCKS B
34	IE(	IEO	<u>6~</u>	RXDA	: RECEIVE DATA A
			i	RXDB	, RECEIVE DATA B
41	RXDA	TXDA	44	TXCA	TRANSMITTER CLOCKS A
6	RXCA	SYNCA	38	TXCB	; TRANSMITTER CLOCKS B
<del>+</del> 3	TXCA	W/RDYA	<u>β=</u>	OUTPUT	
			L	DTRA	; DATA TERMINAL READY A
_0	CTSA	RTSA	<b>5</b> —	DTRB	; DATA TERMINAL READY B
<b>−</b> å	DCDA	DTRA	β <u></u>	IEO	; INTERRUPT ENABLE OUTPUT
				INT RTSA	; INTERRUPT REQUEST : REQUEST TO SEND A
14	RXDB	TXDB	11_	RTSB	: REQUEST TO SEND B
-13	RXCB	SYNCE	15_	TXDA	TRANSMIT DATA A
12	TXCB	W/RDYB		TXDB	TRANSMIT DATA B
					; WAIT / READY A
8	стѕв	RTSB	9	W/KD18	; WAIT/READY B
70	DCDB	DTRB	10_	INPUT/OUT	PLIT
1		J	ĺ	D0 - D7	SYSTEM DATA BUS
				IORQ	: INPUT/OUTPUT REQUEST
				SYNCA SYNCB	; SYNCHRONIZATION A : SYNCHRONIZATION B
				011100	, OTHORNOINEA HON B



2SA1122D 2SA1122D 2SA1162G 2SA1226 2SA1576 2SA1611 2SA812

2SA1175



2SA1385



(SCALE 4/1) TOP VIEW



2SB1114 2SB1121 2SB1188



2SB841



2SC1623 2SC2223 2SC2712 2SC2715Y 2SC3326N 2SC4081 2SC4177 2SC4178 2SC4213A

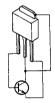


2SC1826

2SD1614

ISCALE 2/11

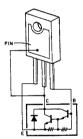




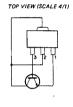
2SC3518



2SD1081

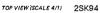


2SD1309



ISCALE 2/11

2SD992A





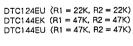


DTA124EU (R1 = 22K, R2 = 22K) DTA124XK (R1 = 22K, R2 = 47K) DTA144EU (R1 = 47K, R2 = 47K)



DTA143XS (R1=4.7K, R2=10K) DTC114ES (R1=10K, R2=10K)









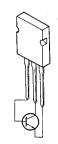
FMS1FE



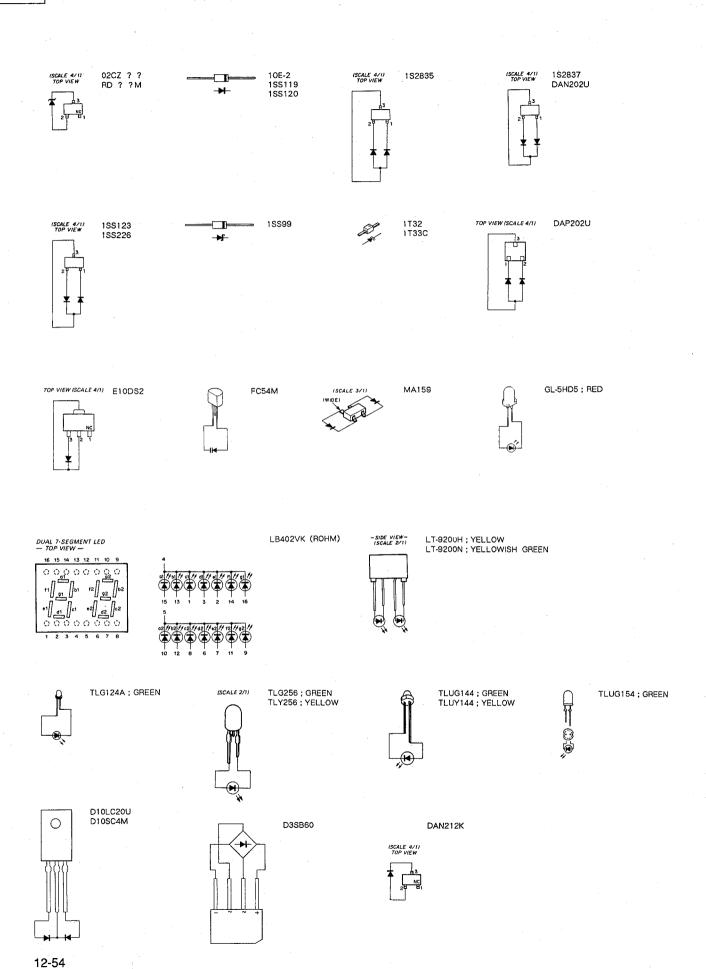
(SCALE 6/1) TOP VIEW



FMW1



2SD2096



### SECTION 13 BOARD LAYOUTS AND SCHEMATIC DIAGRAM

#### CIRCUIT FUNCTION OF THE PRINTED CIRCUIT BOARD

SYSTEM	BOARD	CIRCUIT FUNCTION			
	MD-89	Y/C REC Video Process			
	VRA-4P	REC AMP/Flying Erase OSC			
	PRE-10P	PB Head AMP (VIDEO,			
-		AFM, PCM, ATF), RE, EQ			
	DM-92	Y/C PB Video Process			
	CR-40	DG Compensator (LINE)			
VIDEO	CR-41	DG Compensator (DUB)			
VIDEO	FL-129P	PB Chroma LPF			
	FL-130P	PB Y LPF (Hi8)			
	FL-131P	PB Y EQ (NORMAL)			
	TBC-27	TBC/GEN Lock			
	VA-111AP	Video Interface/Sync,			
		Burst Insert			
	CP-176	Video Input/Output Interface			
	AU-156AP	AFM Audio, Input/Output			
		Select			
	VR-122	Audio Level Control			
ALIDIO	AU-157AP	PCM Audio, Input/Output			
AUDIO		Select			
	AA-57P	Audio Input/Output AMP			
	PD-62	JOG Audio Process			
	CP-177	Audio Input/Output Interface			
	SST-2AP	Servo/System Control			
	CN-551P	Servo Interface			
	KY-217	Function Key Board			
	DD-12	Display Drive			
	PTC-32	Search Dial			
	LP-52	Mode Display			
	DP-101	Display			
	RM-101	15Pin Connector			
SYSTEM		(for TBC Remote controller)			
CONTROL	RM-122	9Pin connector			
SERVO	SW-467P	Sub Panel Switch			
	SW-540	Mode Select Switch			
	SW-543	Remote Panel Switch			
	TS-74	Tape Top/End Sensor			
	RS-31	Mechanical Control			
	MS-36	Mode Switch			
	LM-22	Loading Sensor			
	LD-1	Tape Sensor			
	TR-72	S-Tension Regulator Sensor			

SYSTEM	BOARD	CIRCUIT FUNCTION	
POWER	AC-121AP DC-57P SOPS-1031	AC Input DC Supply Switching Regulator	
OTHERS	MB-356P MT-57A SW-466 VR-130 HP-52 FP-84 FP-122 FP-206	Mother Board Audio Level Meter Audio Meter Select Switch Headphones Level Headphones Jack Connection Connection Connection	

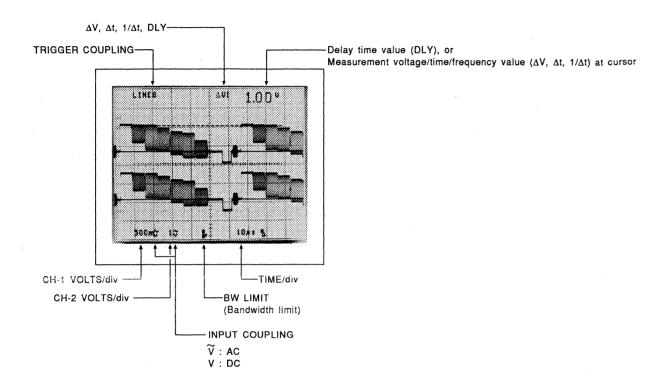
In the schematic diagrams, the following marks are described near by reference number. These are parts data at factory.

CAPA	ACITOR (C)	RESISTOR (R) VARIABLE RESISTOR (RV
AL AS TA CA CC CCS CM CS	ELECTROLYTIC TANTALUM CERAMIC	RC RD CARBON RF FUSE RN METAL RS WIERWOUND NM NO MOUNTED
MPS PP PS PT MD MS	MYLAR  DIPPED MICA MICA	

• The variety of the fixed resistor without its indication is fixed carbon resistor.

#### SETTING OF OSCILLOSCOPE FOR MEASUREMENT

• With waveform photograph used for waveform display :
The setting conditions are displayed on the photograph as given bilow.



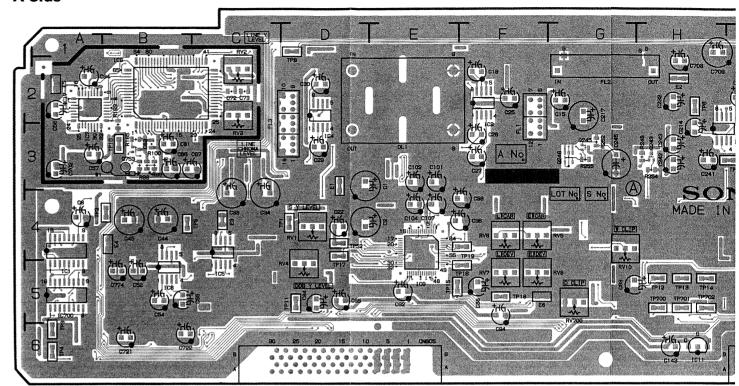
The mentioned items at waveform photograph of this section are measurement point and machine operation mode.

MD-89

#### CN11 O701 A-3* Q24 B-5* CN605 D-6 Q25 B-5* Q702 A-3 * TP9 R-4 B-4* Q703 H-2* TP10 B-3 Q27 B-3* Q704 J-2* TP11 D-5 D1 Q28 D-5* Q705 D-3 * A-6* TP13 029 Q706 H-5 D3 H-4* H-5* D-2 * TP14 H-5 D4 H-4* Q30 H-5* Q707 C-5* D241 G-3* Q31 H-5* Q708 C-5* TP15 E-5 D700 G-5* Q32 H-5* Q709 C-4* TP16 F-5 TP17 D701 H-5* Q33 H-5* Q710 B-5 * D-4 TP18 F-5 D702 D-5 * 034 H-5* 0711 G-5* D703 TP19 F-4 D-5 * Q35 E-5* Q712 G-4* D704 H-5* Q36 F-4* Q715 K-5* TP20 K-2 Q37 F-4* Q716 M-6* TP21 K-3 Q717 TP22 DL1 E-2 Q38 F-5* M-5* K-2 TP23 Q718 M-5 * O39 K-2* L-1 E1 D-3 Q719 TP24 Q40 K-2* M-5 L-3 E2 H-2 Q41 K-2* Q720 M-5 * TP29 E3 C-4 Q42 K-3* Q721 M-4* TP30 E4 B-4 Q43 L-2* Q723 M-4 TP31 K-5 TP32 E5 A-2 Q44 K-2* Q724 N-3 * 1 -4 F-5 Q45 M-2 Q725 N-3* TP33 L-4 E7 L-3 M-2 Q727 N-3* TP34 M-3 N-1 Q47 M-2* Q728 N-4* TP35 E9 L-2 Q729 TP36 M-1 Q48 M-2 N-4* FL1 TP37 M-1 F-2 Q51 N-2 Q731 N-5 * M-1 FL2 G-2 Q52 H-5* Q732 N-5 TP38 FL3 G-5* Q733 N-5* TP51 K-3 K-3 Q55 G-4* Q734 N-5 * TP52 D-4 FL4 Q56 Q735 TP53 K-1 FŁ5 K-2 G-4* N-5* TP700 H-5 Q736 N-5* Q57 H-4* IC1 A-5 Q58 G-4* Q737 G-5* TP701 H-5 M-6* Q750 B-5* TP702 IC2 H-3 IC3 Q751 C-5* TP703 M-2 F-2 Q76 M-6 IC4 D-3 Q77 1-4* 0752 C-5* IC5 C-5 Q78 L-4* Q753 B-3 X1 K-3 IC6 B-5 Q79 K-4* Q754 E-5* IC7 IC8 * mark ; B SIDE mount A-2 Q80 L-6* Q755 M-4* N-3 * Q756 B-2 O81 1-5* IC9 E-4 L-5* Q758 Q82 J-4* IC10 K-2 Q83 L-4* IC11 Q84 K-5* RV1 D-4 IC14 M-3 L-5* RV2 C-2 IC700 A-5 Q86 L-5* RV3 C-2 IC701 N-4 O87 1-4* RV4 D-5 IC702 N-6 Q88 L-5* RV5 F-4 IC703 N-5 Q89 L-3* RV6 F-4 L-3* Q1 D-4* Q91 G-2* RV8 F-5 Q2 D-4 * Q92 K-4* RV10 G-4 Q3 D-3 * Q93 A-5* RV13 L-4 Q4 D-3 * Q94 G-2* RV14 L-4 A-4* Q95 H-3* RV15 Q6 Q241 H-3* RV16 A-6* L-4 Q7 A-6* Q242 RV17 H-3* L-5 Q8 **RV18** J-3* Q243 G-3 1-2 Q9 F-3* Q244 G-3* **RV700** G-5 Q10 F-3* Q245 G-3 RV702 M-4 RV703 M-5 Q11 Q246 G-3 H-2* RV704 M-4 Q12 F-1* Q501 H-4* Q13 F-2* Q503 J-5* RV706 N-3 Q14 F-2* Q504 J-5* RV708 N-3 Q17 D-2* Q505 J-5* Q18 Q506 TP1 D-4 J-4* D-2 * Q19 C-4* Q507 J-5* TP2 B-4 Q20 C-5* Q508 K-5* TP3 A-6 Q21 C-4* Q509 J-4* TP4 A-6 Q22 Q510 K-4* TP5 J-3 B-5* TP6 H-2 A-5* B-4* Q700

MD-89 (1-647-604-11)

#### MD-89 BOARD A Side

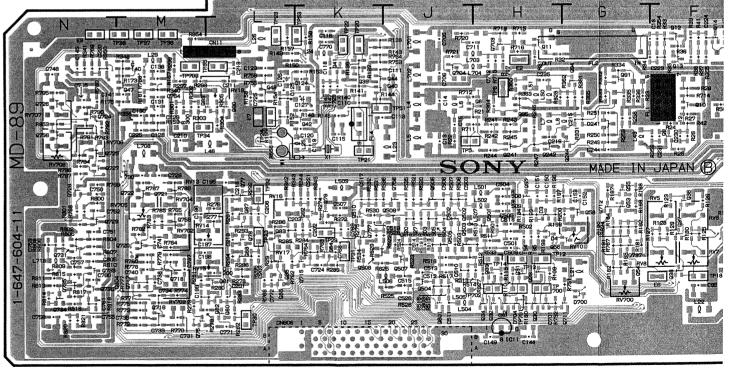


1-647-604-11 A SIDE

A Side is the same as Component Side

### MD-89 BOARD

**B** Side

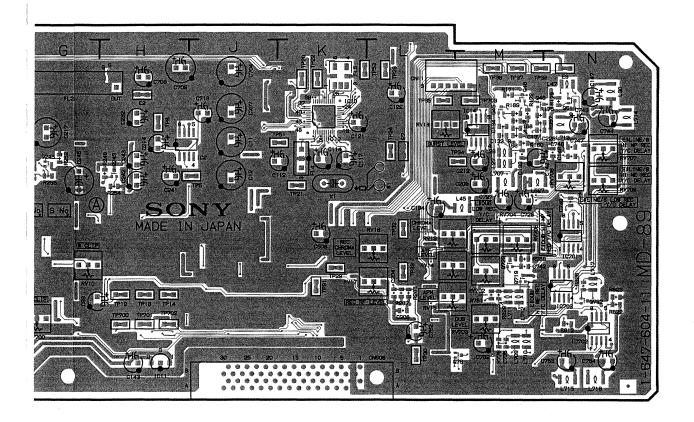


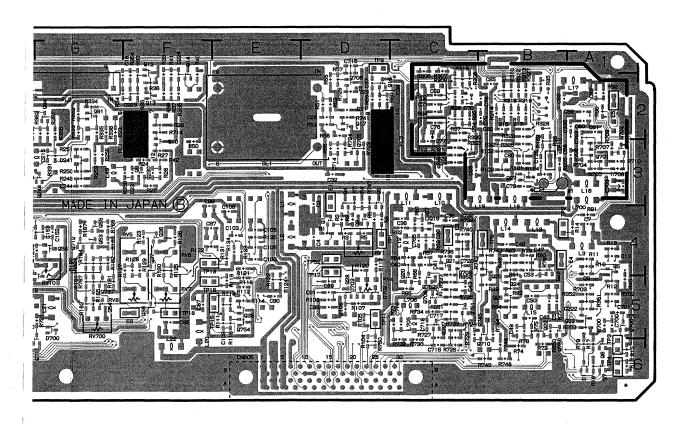
1-647-604-11 B SIDE

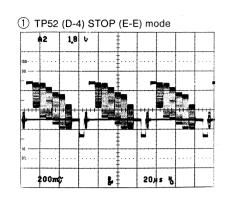
B Side is the same as Soldering Side

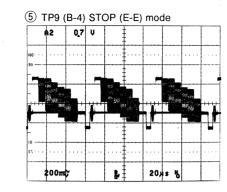
13-2

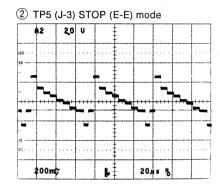
MD-89

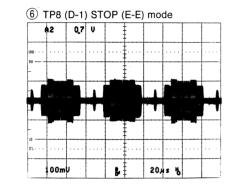


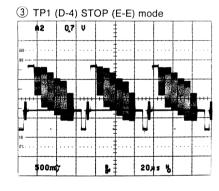




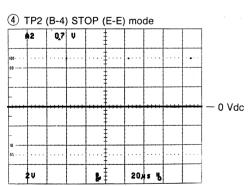


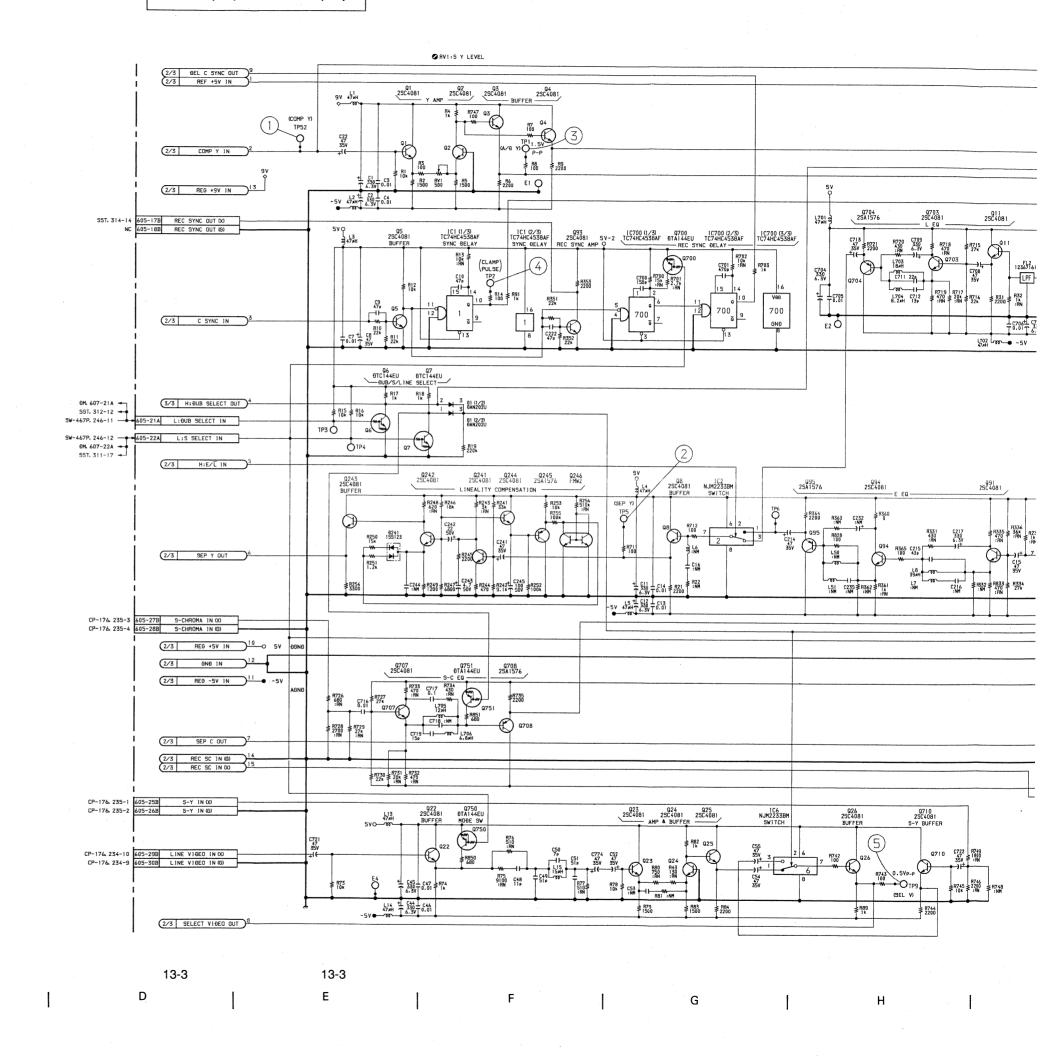


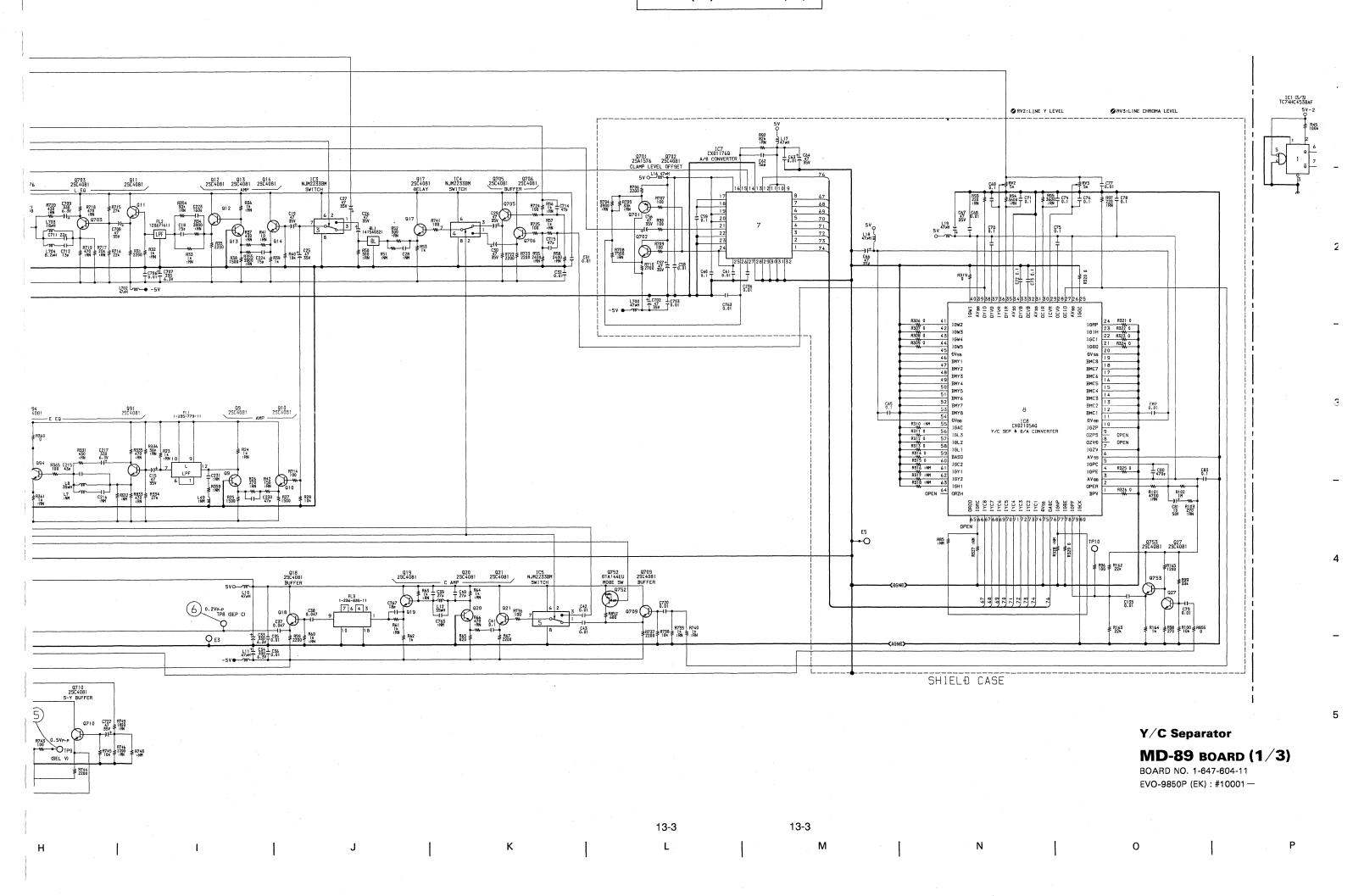


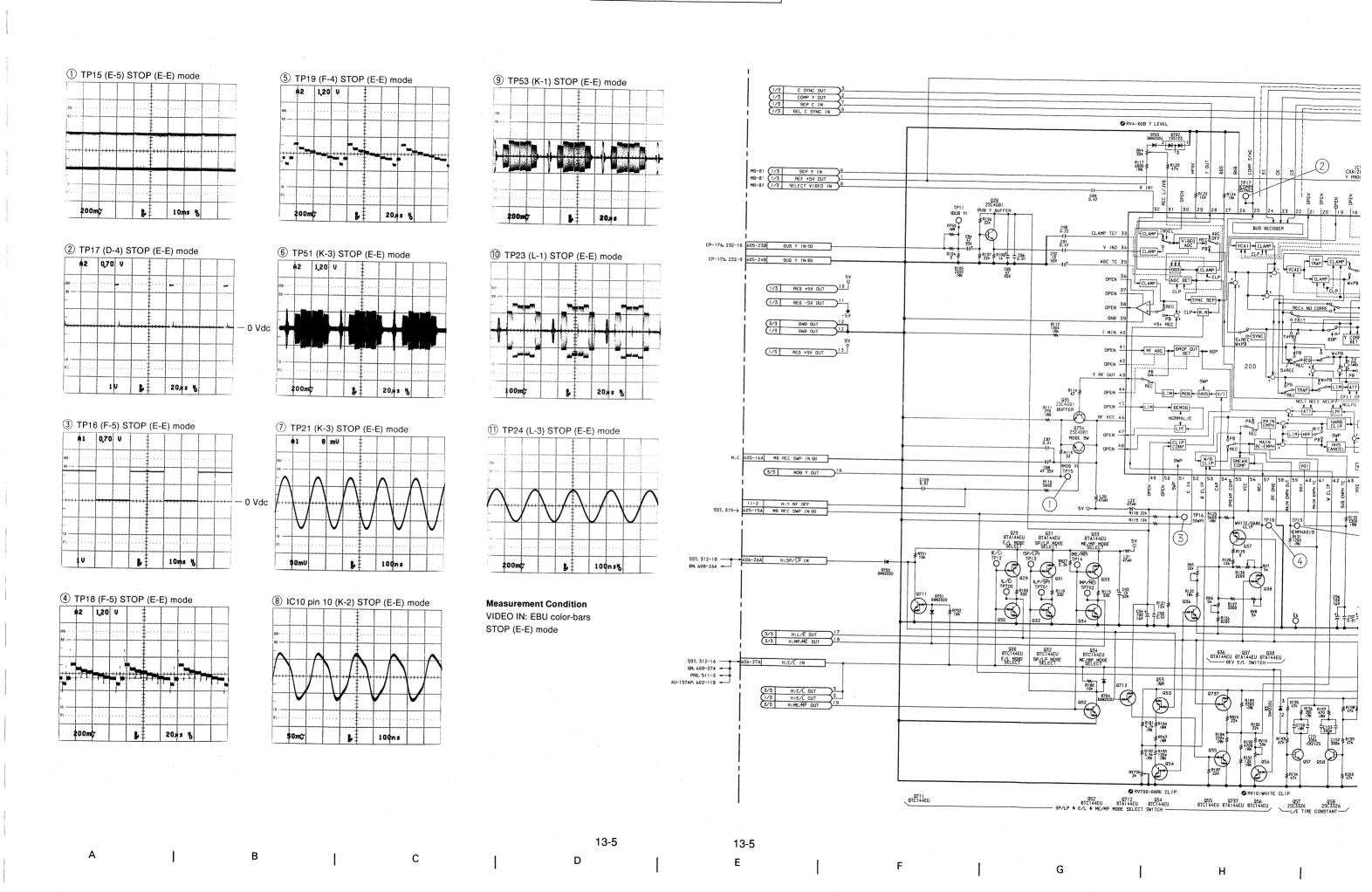


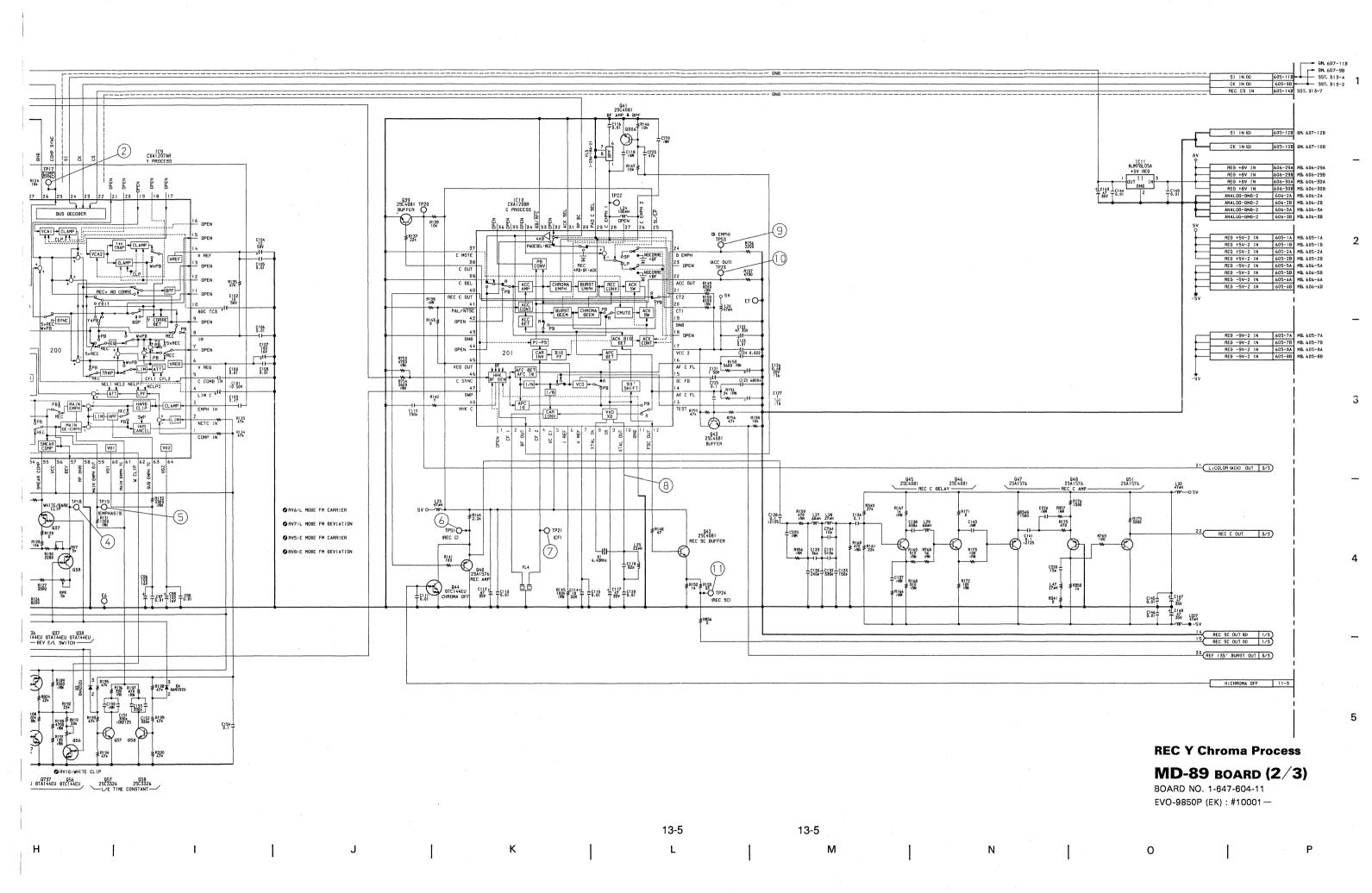
Measurement Condition VIDEO IN: EBU color-bars STOP (E-E) mode

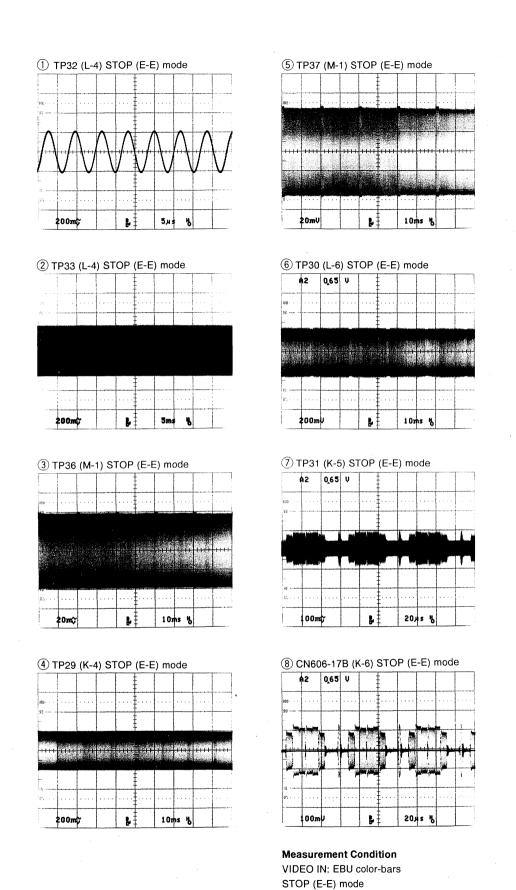




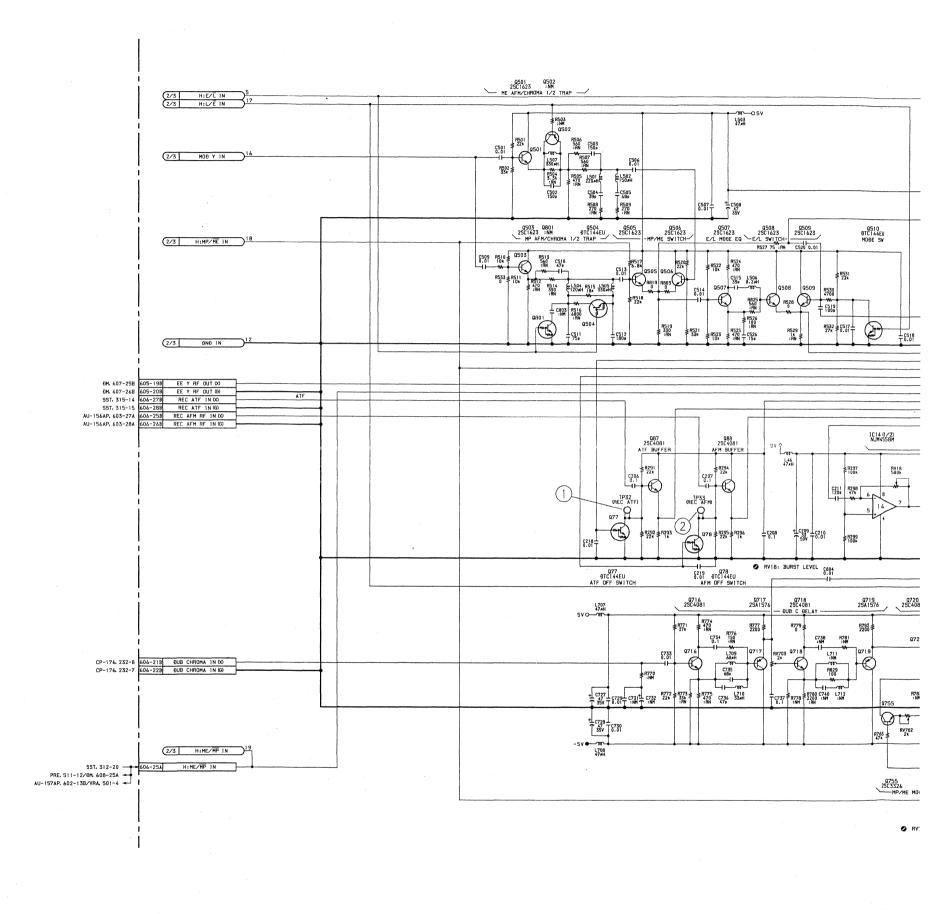




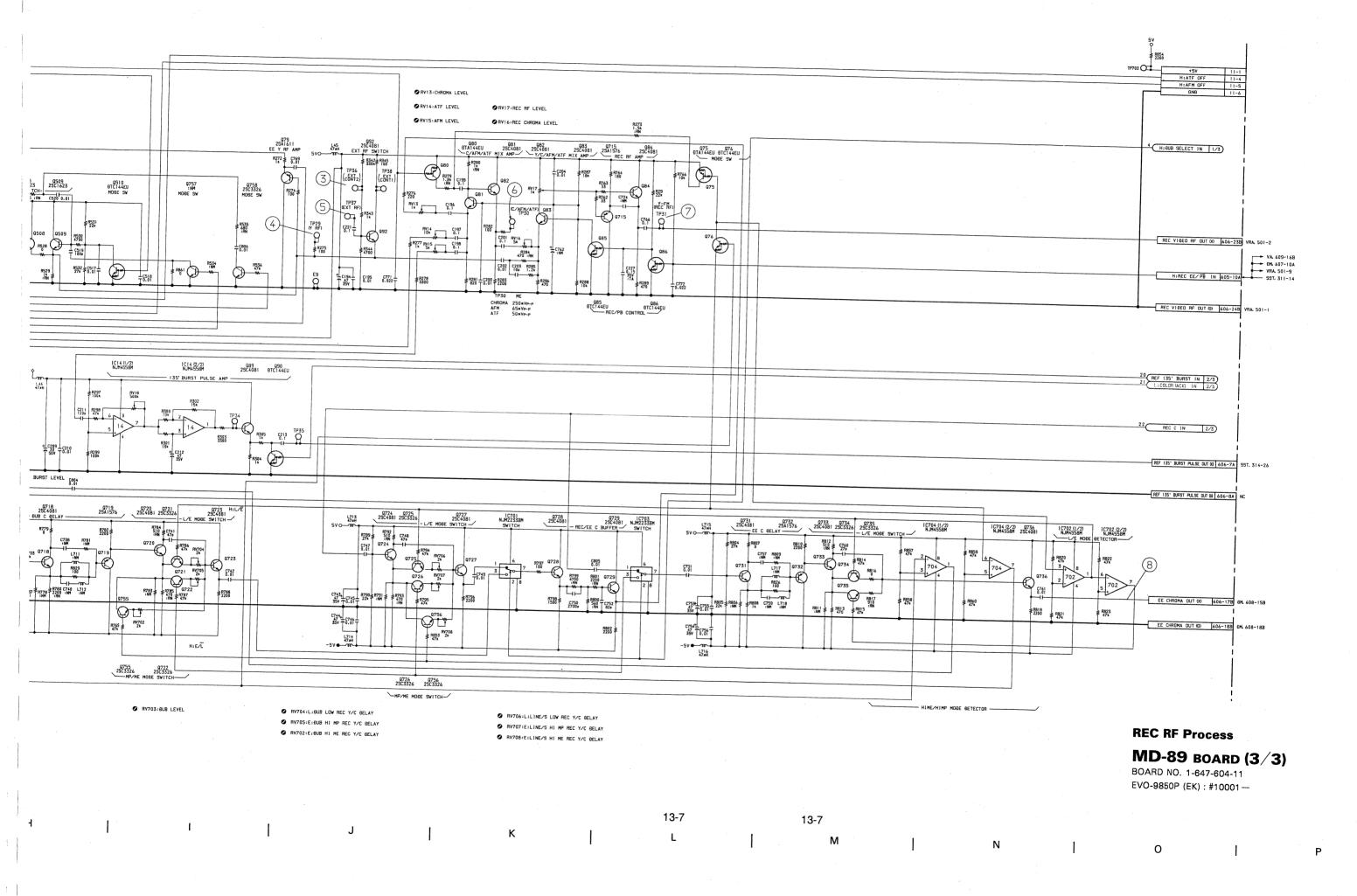




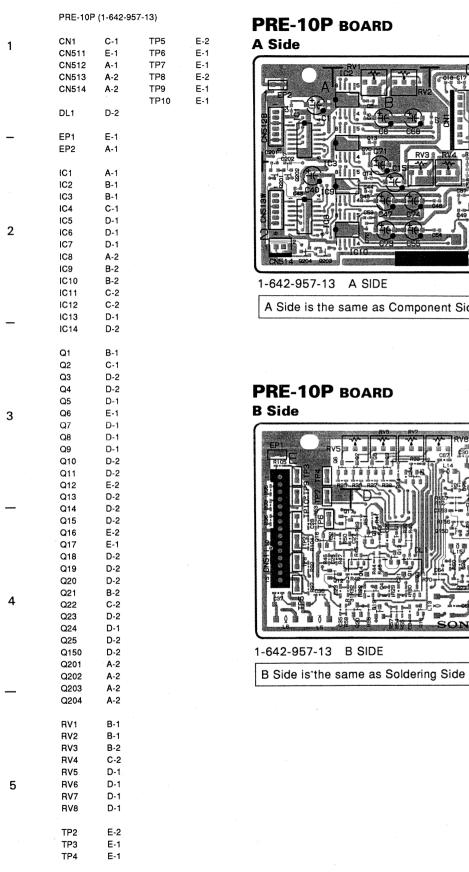
С

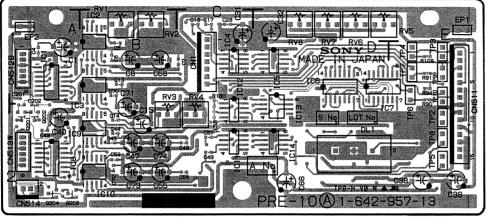


13-7 13-7 D E F G H H

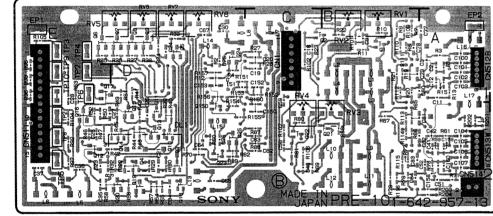


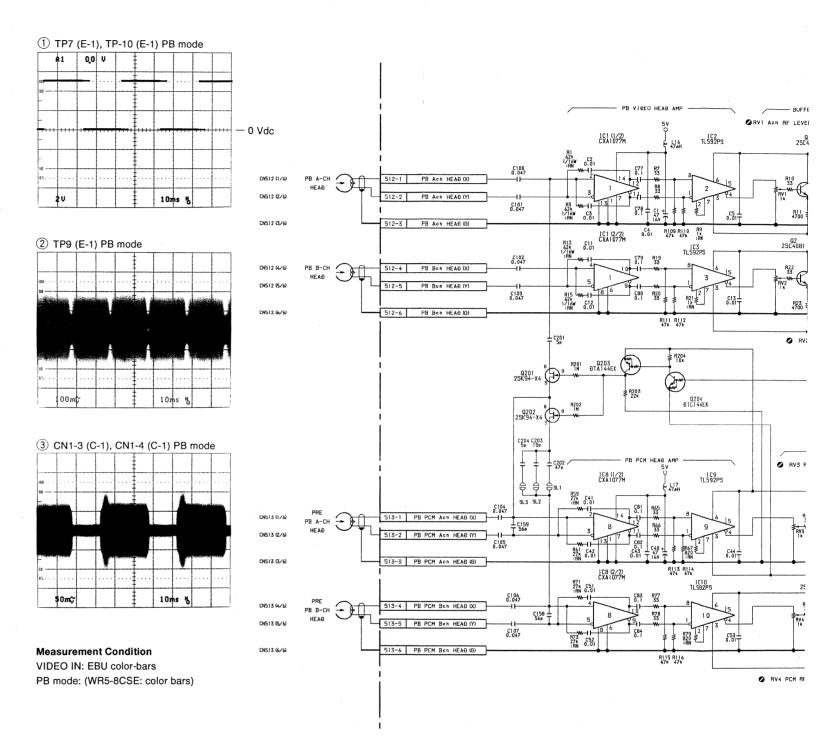
PRE-10P





A Side is the same as Component Side

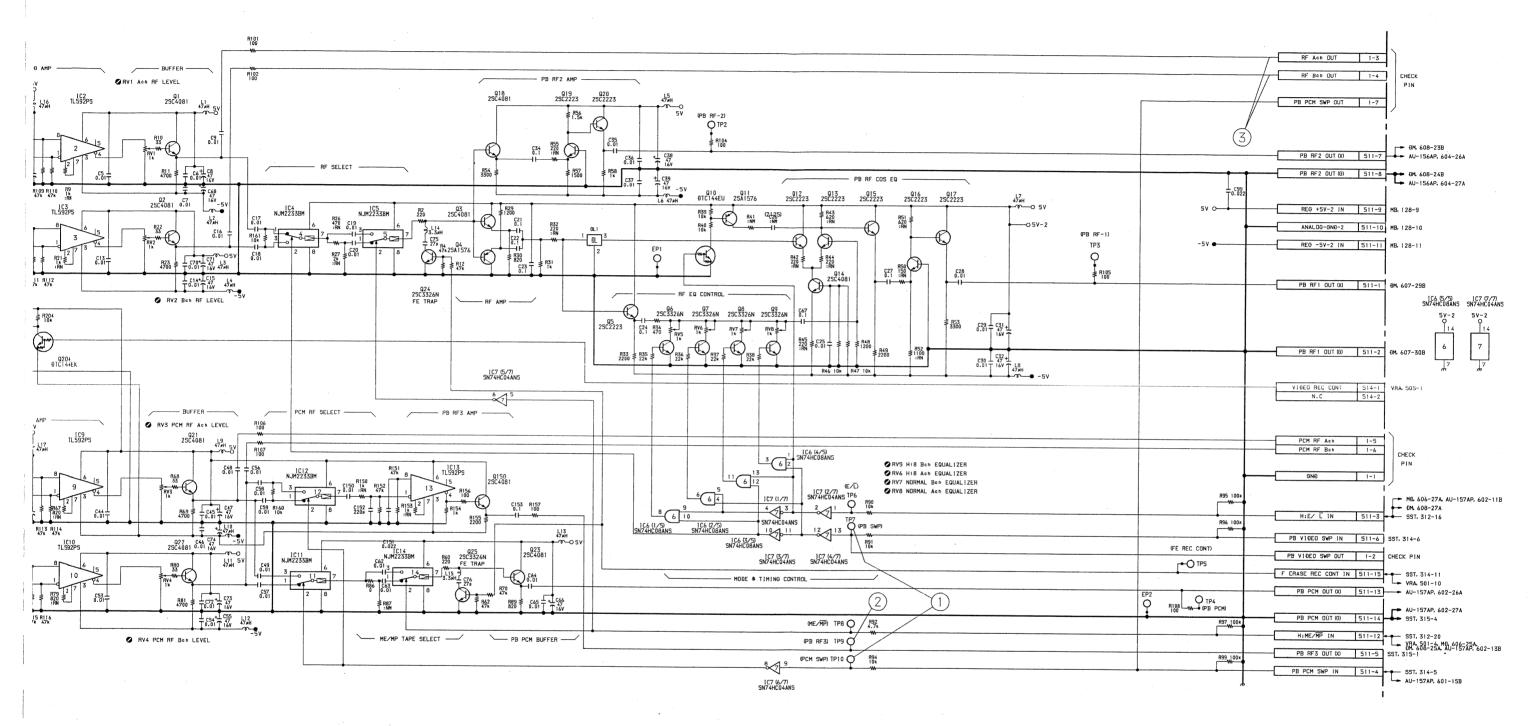




13-8

13-8

PRE-10P



PB Head Amp, RF EQ

#### PRE-10P BOARD

BOARD NO. 1-642-957-13 EVO-9850P (EK): #10001 --

13-8

VRA-4P (1-642-958-13)

CN501 CN502 CN503 D-1 CN504 B-1 CN505 B-3

D2 D-2 F-2 E1 E2 F-1 IC1 E-2

IC3 B-3 IC4 B-2 IC5 C-2 IC6 E-2 E-1 Q1 E-1 Q3 F-1

F-1 Q4 Q5 E-1 Q6 B-1 C-3 Q8 C-2 RV1 F-1 RV2 D-1

C-1

F-1

F-1

TP1 A-3 TP2 A-3 TP3 D-2 TP4 E-3 TP5 F-3 TP6 TP7 C-2 TP8 E-2 TP9 B-3

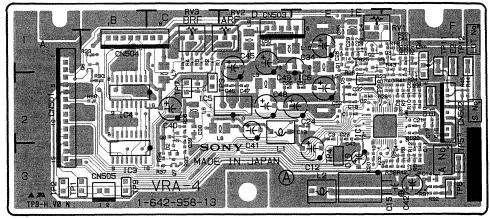
RV3

TP11

TP12

#### VRA-4P BOARD

#### A Side

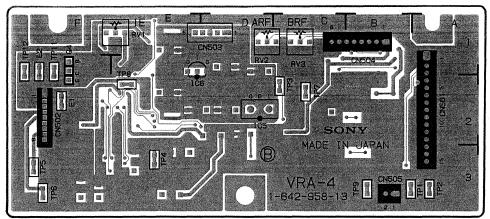


1-642-958-13 A SIDE

A Side is the same as Component Side

## VRA-4P BOARD

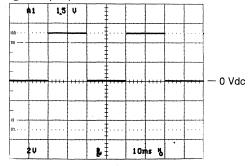
#### **B** Side



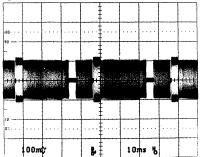
1-642-958-13 B SIDE

B Side is the same as Soldering Side

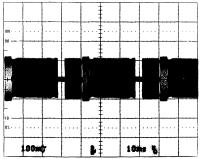
#### 1) TP3 (D-2) REC mode



#### 2 TP5 (F-3) REC mode

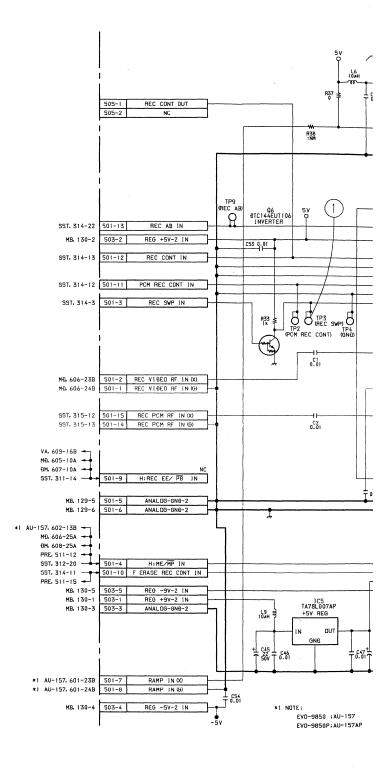


#### 3 TP6 (F-3) REC mode



#### **Measurement Condition**

VIDEO IN: EBU color-bars REC mode



13-9

13-9

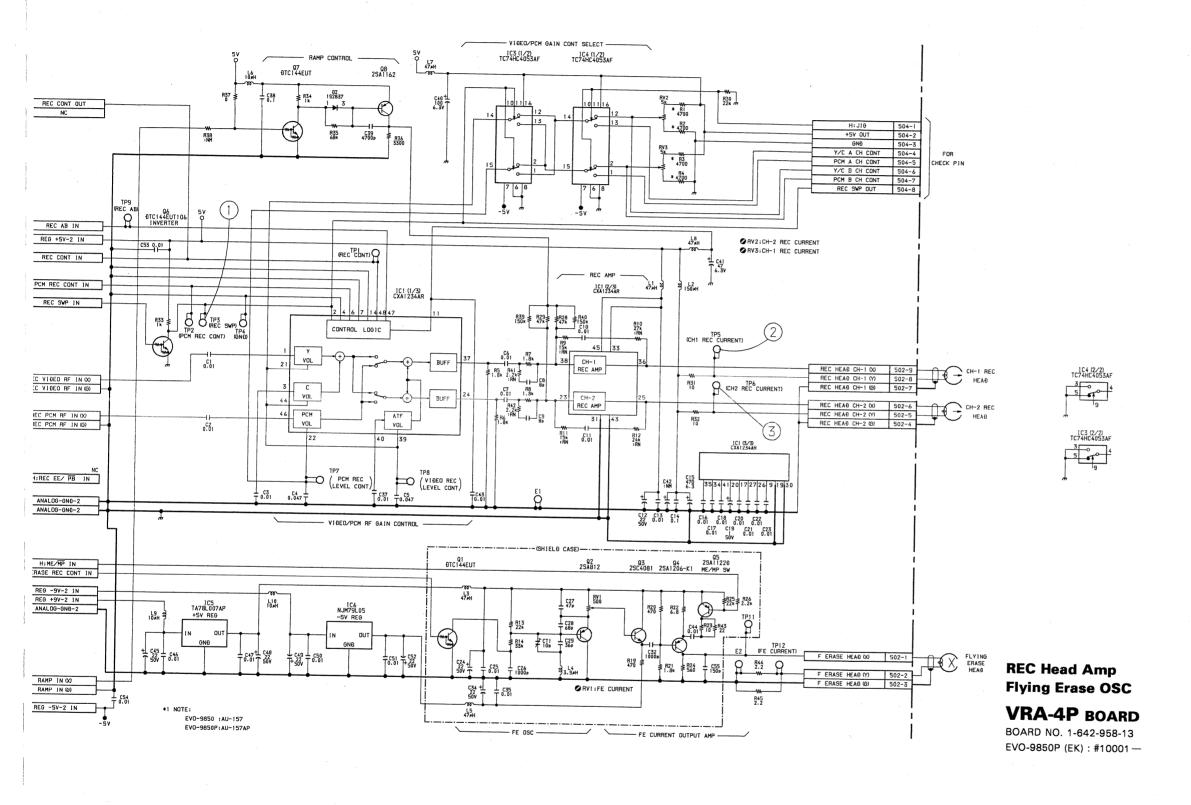
G

В

С

E

F



13-9

13-9

M

N

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Р

#### DM-92 BOARD A Side

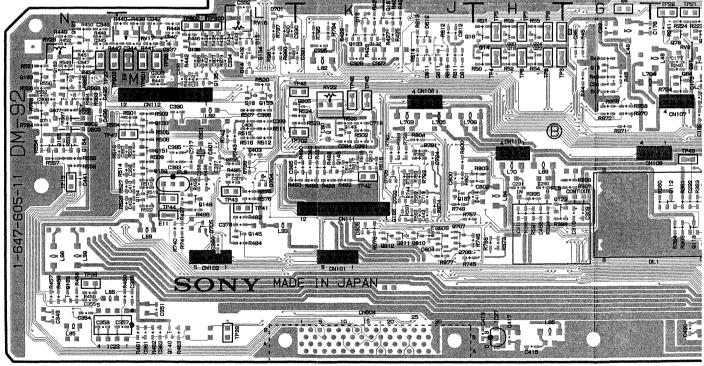
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	20 25 20 15 10 t 1	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

1-647-605-11 A SIDE

A Side is the same as Component Side

## DM-92 BOARD

**B** Side

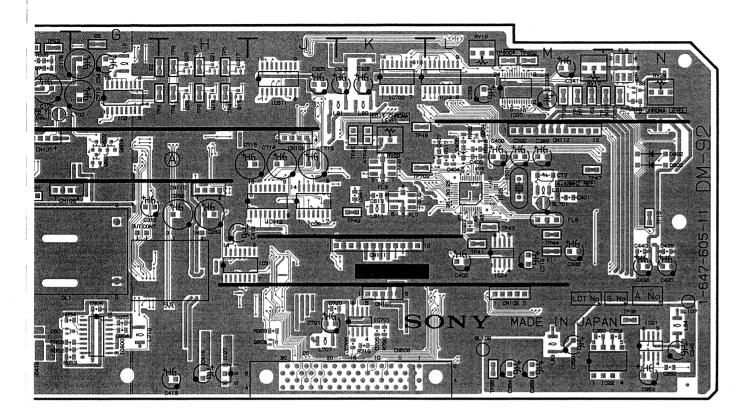


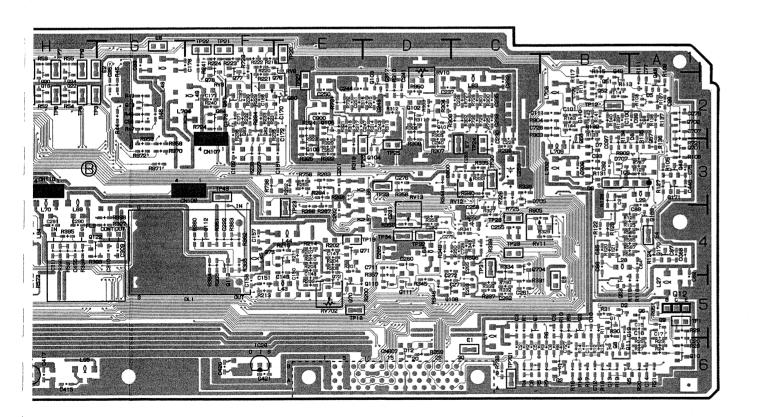
1-647-605-11 B SIDE

B Side is the same as Soldering Side

# DM-92 (1-647-605-11)

		• • •					
CN607	D-6	IC612	J-4	Q122	H-4*	TP3	H-2
CN608	K-6	IC701	K-5	Q131	K-1*	TP4	H-2
		IC702	K-2	Q132	K-1 *	TP5	H-1
СТЗ	M-3	IC800	G-5	Q133	K-1*	TP6	H-2
				Q134	L-2*	TP7	H-1
D1	B-5*	Q1	C-5*	Q135	M-2*	TP8	H-2
D2	B-5 *	Q2	B-6*	Q136	M-2*	TP9	H-1
D5	A-2*	Q3	B-5*	Q137	N-2 *	TP12	B-2
D6	B-3*	Q4	B-6	Q138	N-2	TP15	N-4
D7	B-3 *	Q5	B-6*	Q139	N-5 *	TP18	E-5
D8	B-3*	Q6	A-5*	Q140	M-6 *	TP19	E-4
D12	D-6*	Q7	A-6	Q145	L-4*	TP20	E-1
D13	K-1*	Q8	B-6*	Q146	K-3*	TP21	F-1
D14	L-2*	Q9	A-5*	Q148	M-4*	TP22	F-1
D15	L-2*	Q10	A-6*	Q149	K-3*	TP23	E-4
D611	J-2*	Q11	B-6*	Q150	M-3 *	TP24	C-3
D612	J-1*	Q12	A-5	Q151	M-3 *	TP25	D-3
D701	L-1*	Q13	G-2*	Q152	M-4 *	TP26	E-3
D702	J-4*	Q14	H-2*	Q154	M-4*	TP27	E-2
D704	L-4*	Q15	H-2	Q162	N-2 *	TP28	C-4
D705	C-3*	Q16	H-2*	Q163	N-2*	TP29	C-4
D706	J-4*	Q17	H-1	Q164	N-3 *	TP30	C-3
D707	B-3*	Q18	H-2*	Q165	N-3 *	TP31	C-4
D800	C-3*	Q19	H-2	Q166	J-4*	TP32	D-4
D801	G-5	Q20	H-2*	Q167	J-4*	TP33	D-3
D802	N-3	Q21	H-1	Q175	B-4	TP34	D-4
D803	N-3	Q22	H-2*	Q176	B-3	TP36	M-2
D804	J-5 *	Q23	H-2	Q611	J-2*	TP37	N-2
D805	K-4*	Q24	H-2*	Q612	K-3*	TP38	N-5
		Q25	H-1	Q701	A-3*	TP39	L-6
DL1	F-4	Q46	A-3*	Q703	A-3	TP41	L-4
		Q48	A-2*	Q704	C-4*	TP42	K-4
E1	C-6	Q49	B-2*	Q706	J-5*	TP43	L-4
E2	H-1	Q50	B-1	Q707	J-4*	TP44	M-4
E4	A-4	Q51	B-2*	Q800	B-3	TP45	K-2
E6	G-1	Q52	B-2*	Q801	G-3	TP46	K-2
E7	C-3	Q53	B-5 *	Q802	G-3	TP47	M-3
E8	B-5	Q54	B-4	Q803	G-3	TP48	K-2
E9	M-2	Q55	A-3	Q804	L-2	TP49	F-3
E11	M-4	Q56	B-3*	Q805	K-3*	TP701	C-6
		Q57	A-3 *	Q806	N-2 *	TP702	K-3
FL2	D-2	Q58	B-2	Q807	N-2 *	TP800	L-1
FL3	E-2	Q70	E-5*	Q809	J-4*	TP801	M-2
FL5	H-4	Q71	E-4*	Q810	J-4*	TP802	M-1
FL6	N-1	Q72	E-5*	Q811	J-4*	TP803	N-2
FL7	K-3	Q73	E-4	Q812	J-4*		
FL8	M-4	Q74	F-5	Q813	D-5	X501	M-3
FL9	K-3	Q75	E-4*	Q815	B-3*		
		Q76	E-1*	Q816	B-3*	* mark ;	B SIDE mour
IC3	G-2	Q77	F-1*	Q818	J-5		
IC5	A-3	Q78	F-1*	Q819	G-5*		
IC6	B-2	Q80	E-2*	Q820	F-5*		
IC9	E-4	Q81	F-2*	D1/6			
IC10	F-2	Q82	F-2*	RV8	F-2		
IC12	E-4	Q83	F-2*	RV9	F-2		
IC15	C-2	Q84	F-2*	RV10	D-2		
IC16	D-2	Q101	D-2*	RV11	C-4		
IC17	C-4	Q102	D-2*	RV12	C-3		
IC19	L-2	Q103	D-2*	RV13	D-4		
IC20	L-2	Q104	D-3*	RV16	L-1		
IC21	N-6	Q105	E-2*	RV17	M-1		
IC22	M-6	Q106	E-3*	RV22	K-3		
IC24	L-4	Q107	B-4	RV28	N-2		
IC25	L-3	Q108	D-5*	RV702	E-5		
IC26	J-4	Q109	D-5	T11404	D. C		
IC27	H-6	Q110	D-5*	TH101	D-2		
IC28	F-6	Q111	D-5*	TH102	A-3		
IC31	H-5	Q112	F-4*	TD4	A F		
IC611	J-2	Q113	F-4*	TP1	A-5		

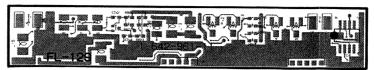




## FL-129P BOARD

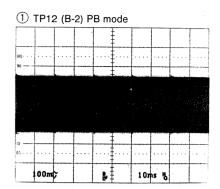
DM-92, FL-129P

#### A Side



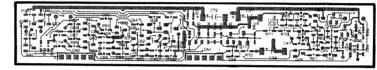
1-642-961-11 A SIDE

A Side is the same as Component Side



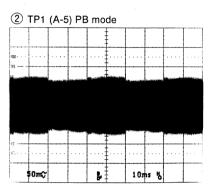
## FL-129P BOARD

#### **B** Side

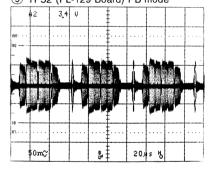


1-642-961-11 B SIDE

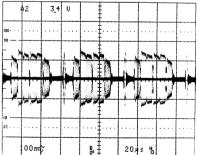
B Side is the same as Soldering Side



#### ③ TP52 (FL-129 Board) PB mode

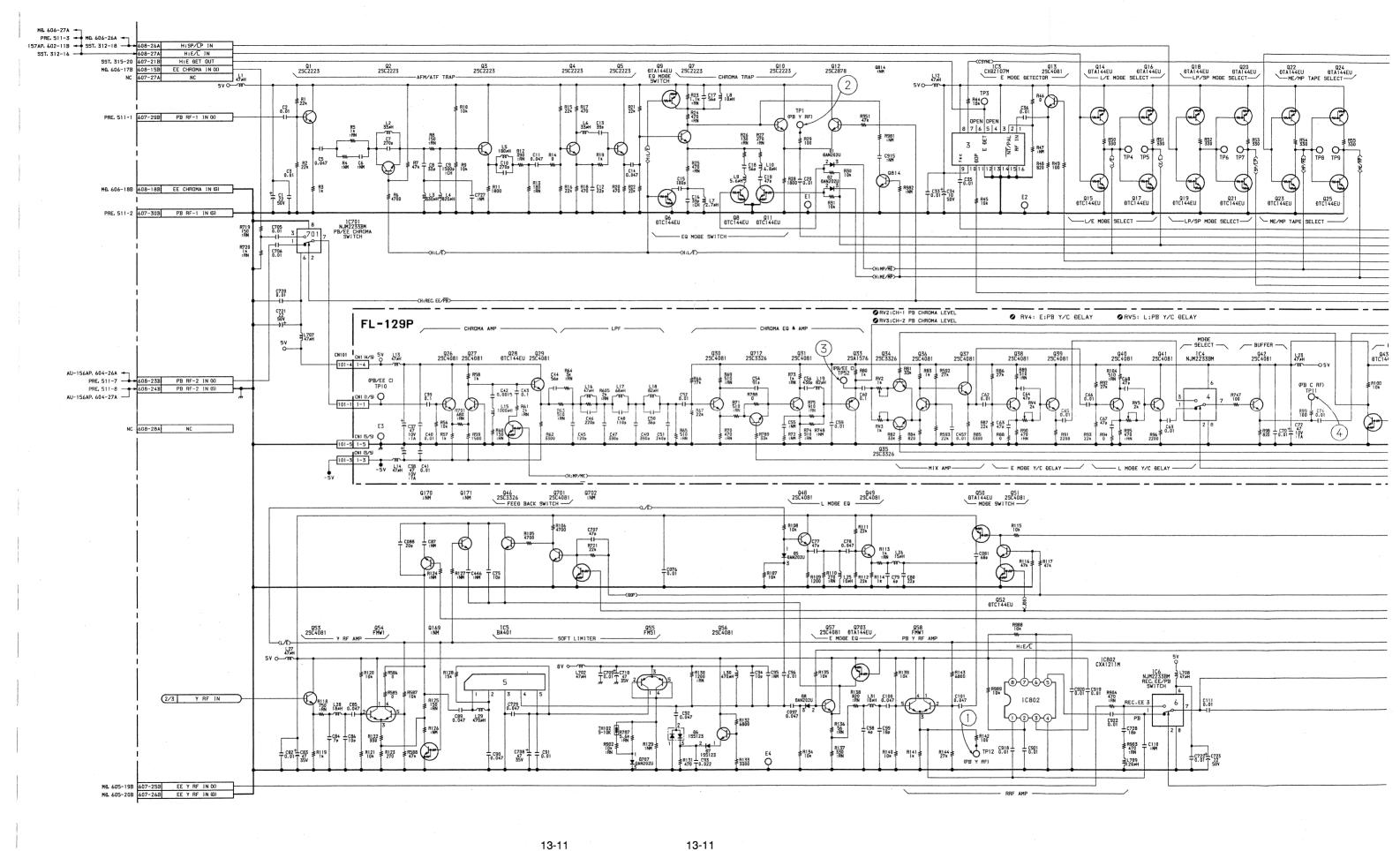


#### ④ TP11 (FL-129 Board) PB mode

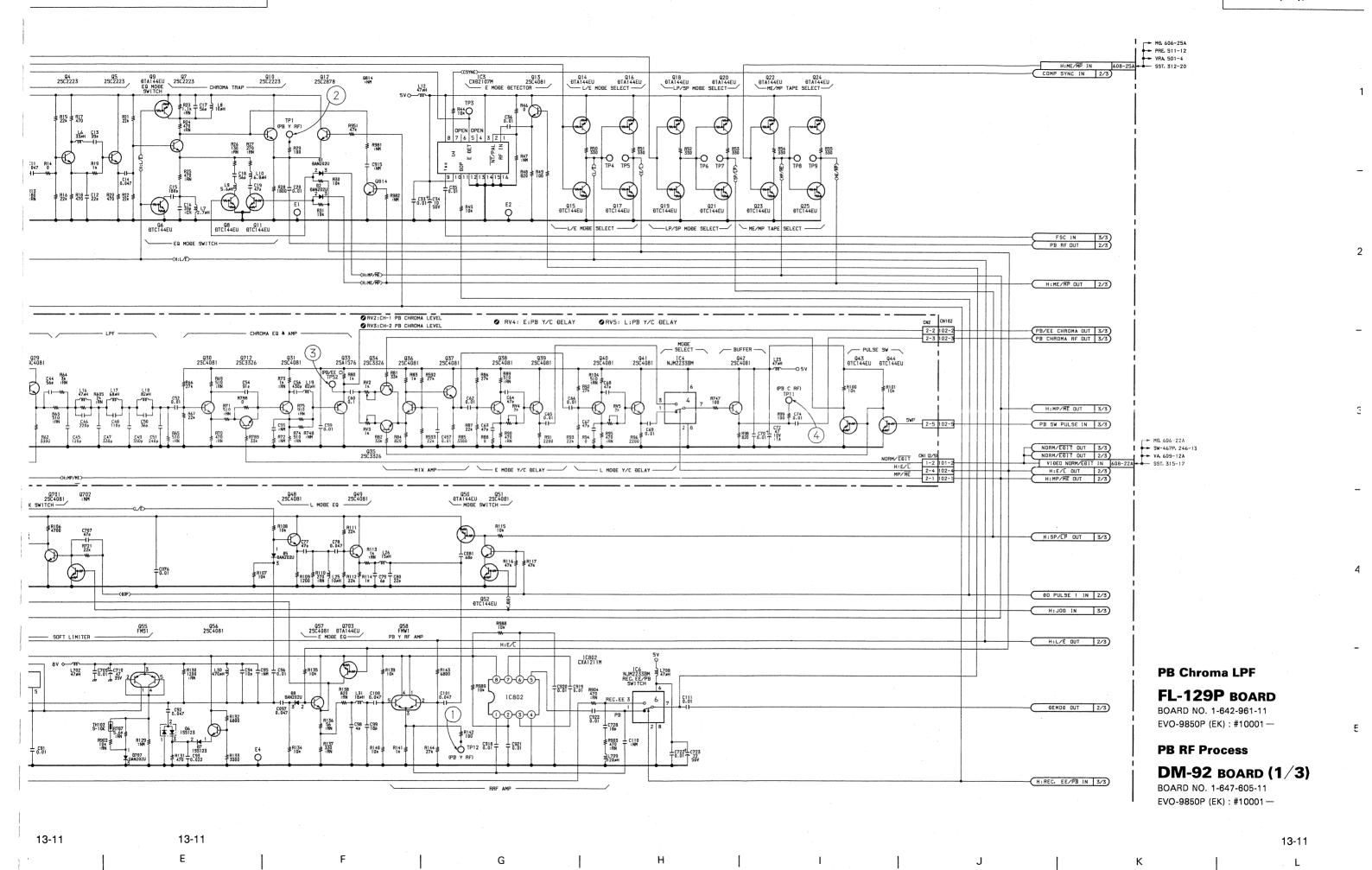


#### **Measurement Condition**

VIDEO IN: EBU color-bars
PB mode: (WR5-8CSE: color bars)

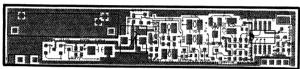


A | B | C | D | E | G | H | I



## FL-130P BOARD

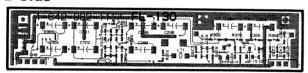
A Side



1-642-962-11 A SIDE

A Side is the same as Component Side

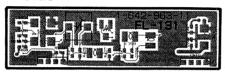
### FL-130P BOARD **B** Side



1-642-962-11 B SIDE

B Side is the same as Soldering Side

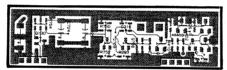
#### FL-131P BOARD A Side



1-642-963-11 A SIDE

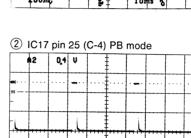
A Side is the same as Component Side

#### FL-131P BOARD **B** Side

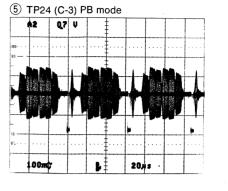


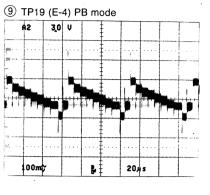
1-642-963-11 B SIDE

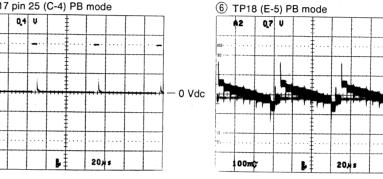
B Side is the same as Soldering Side

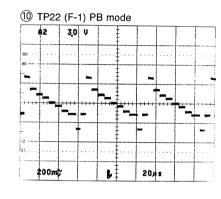


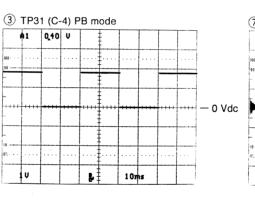
1) TP28 (C-4) PB mode

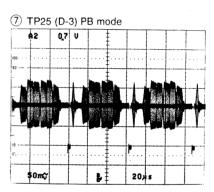


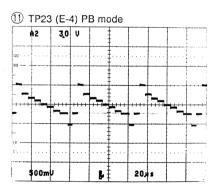


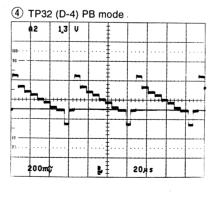


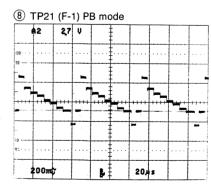


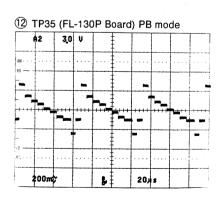




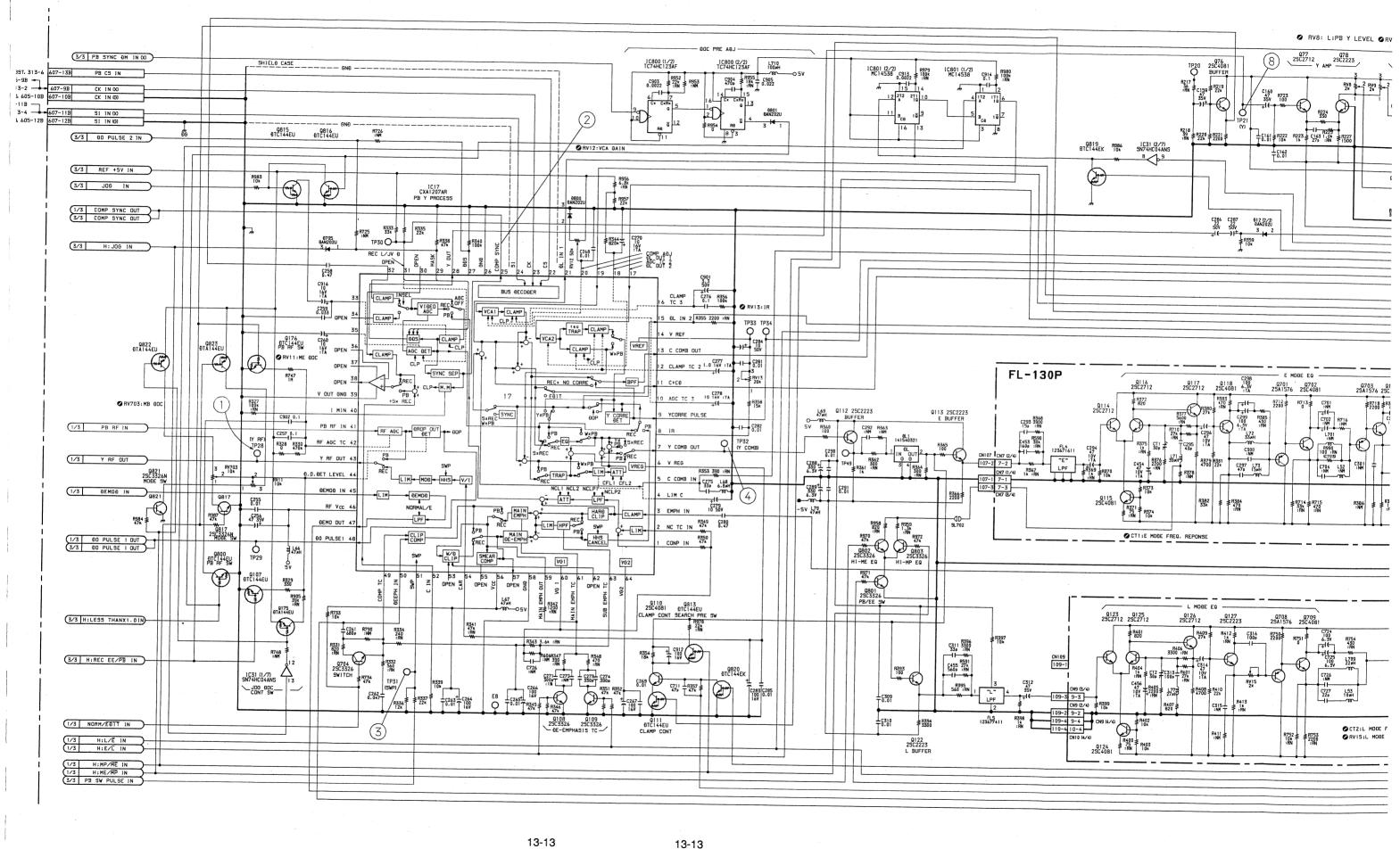








**Measurement Condition** VIDEO IN: EBU color-bars PB mode: (WR5-8CSE: color bars)



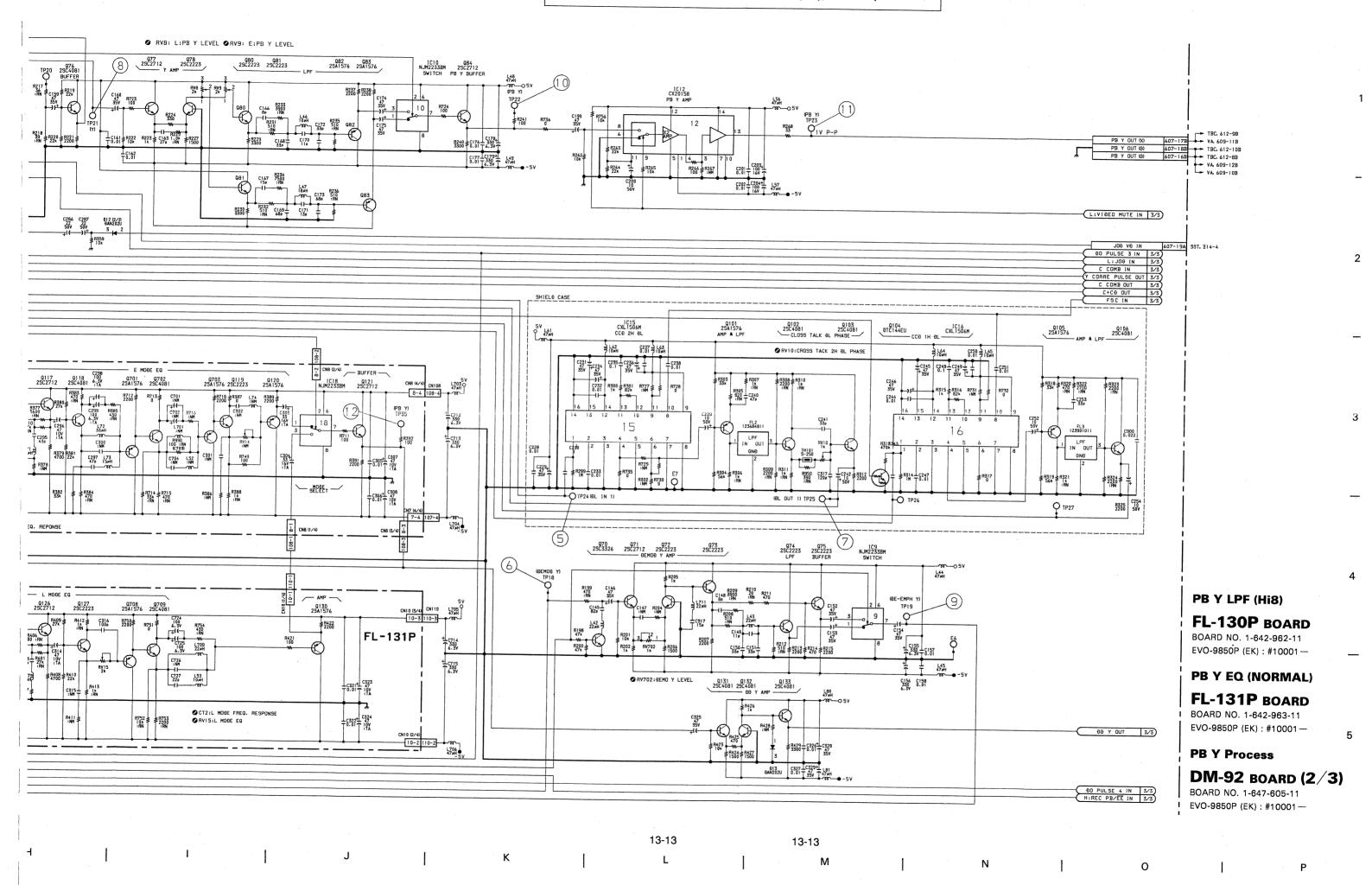
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E

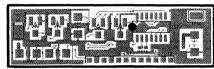
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G



## CR-40 BOARD

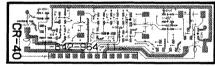




1-642-964-11 A SIDE

A Side is the same as Component Side

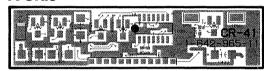
#### CR-40 BOARD **B** Side



1-642-964-11 B SIDE

B Side is the same as Soldering Side

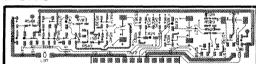
#### CR-41 BOARD A Side



1-642-965-11 A SIDE

A Side is the same as Component Side

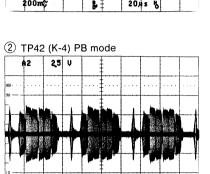
#### CR-41 BOARD **B** Side

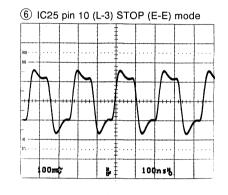


1-642-965-11 B SIDE

B Side is the same as Soldering Side

# 1 TP41 (L-4) PB mode 20 x 5

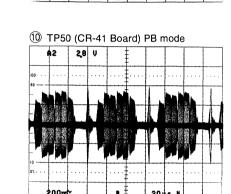




20, s &

⑤ TP46 (K-2) PB mode

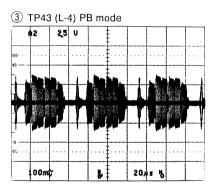
A2 25 U

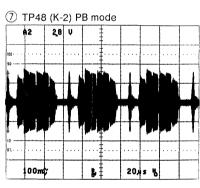


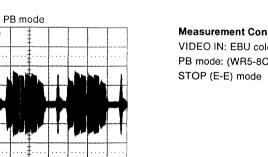
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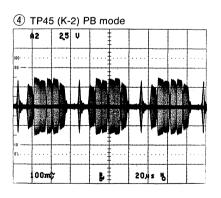
9 TP40 (CR-40 Board) PB mode

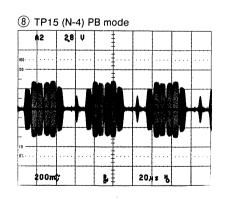
#2 28 U

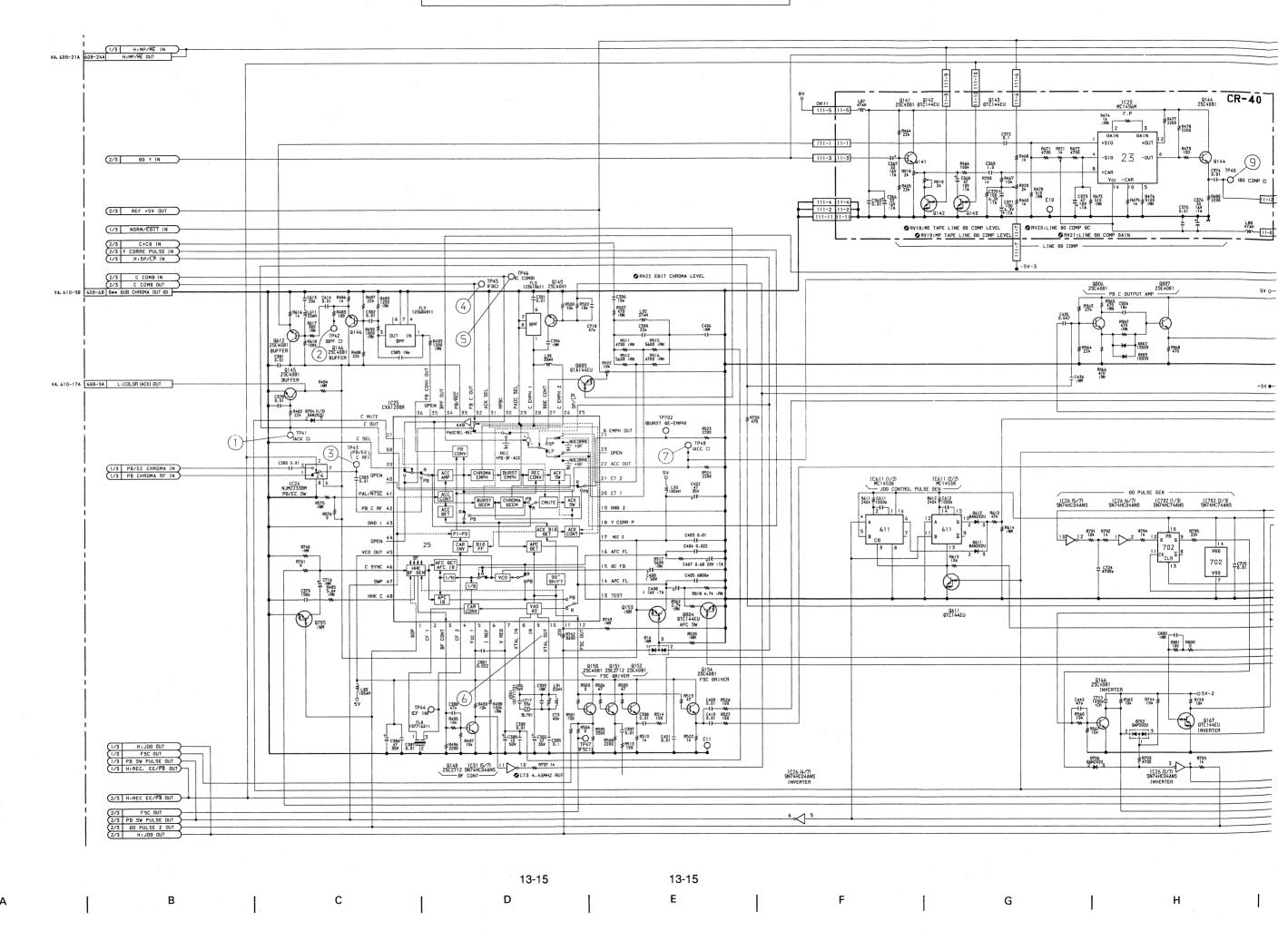


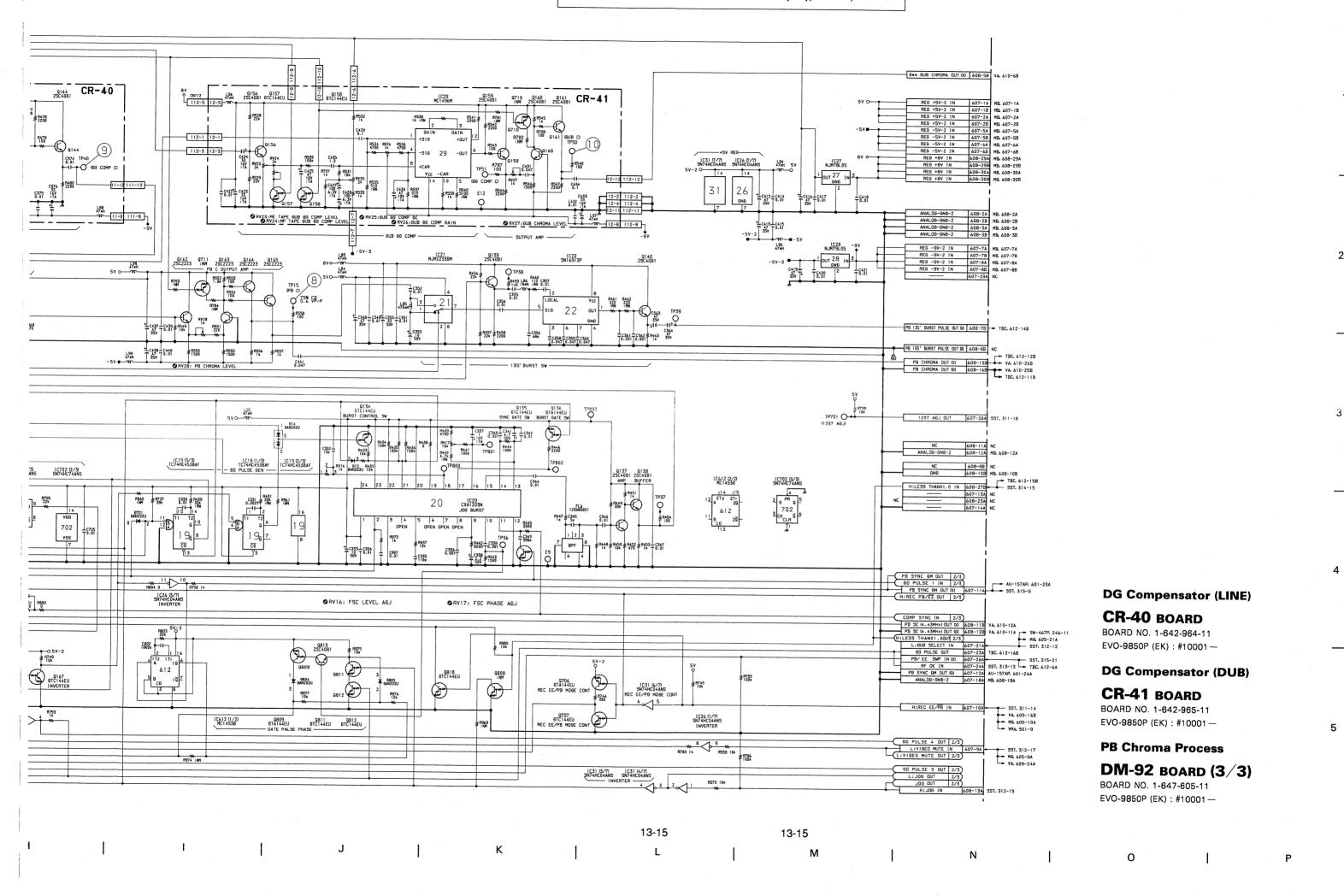






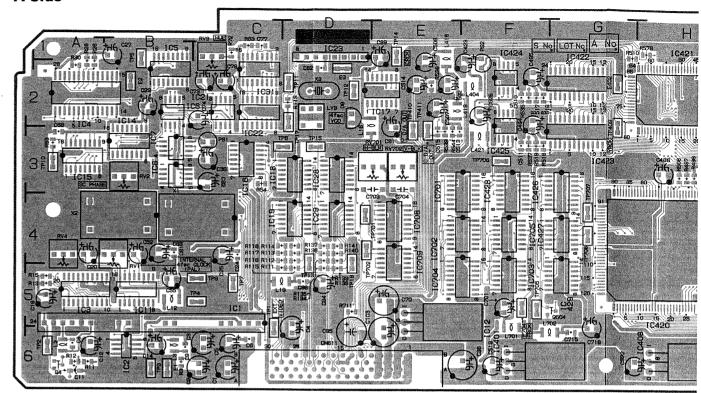






TBC-27 (	1-647-603	-11)			
CN611	D-6	IC422	G-2	RV2	B-3
CN612	K-6	IC423	G-3	RV3	C-1
		IC424	F-2	RV401	N-6
CV401	N-3	IC425	F-3	RV402	N-5
CV402	L-6	IC426	F-3	RV701	E-3
D2	B-6*	IC427 IC428	F-4 F-3	RV702	E-3
D2	A-6*	IC428	F-3 F-4	TH1	B-2*
D6	D-2	IC430	K-5		D-2 #
D401	G-4*	IC701	E-3	TP1	C-6
D402	N-2*	IC702	E-4	TP2	A-6
D407	M-3 *	IC703	F-4	TP3	B-6
D408	M-3 *	IC704	E-4	TP4	C-5
D409	H-2*	IC705	F-4	TP5	B-1
D601	G-5*	IC708	E-4	TP6	D-3
D602	L-5*	IC709	E-4	TP7	C-5
E1	B-6	LV3	D-2	TP9 TP10	C-5 A-3
E2	B-2	240	D-2	TP11	D-2
E3	D-2	PS1	C-3	TP12	D-2
E401	N-3	PS2	F-2	TP13	D-4
E402	G-2			TP14	E-1
E403	M-5	Q1	C-6*	TP15	D-3
		Q2	C-5*	TP16	D-4
FB1	A-4*	Q3	A-6*	TP17	D-2
FB2	E-2*	Q4	A-6	TP401	K-5
		Q5	B-6*	TP402	M-4
IC1	C-5	Q6	B-5*	TP403	M-5
IC2 IC3	B-6 A-5	Q8	B-5*	TP404	N-3
IC4	A-3 A-2	Q9 Q11	C-3* D-2*	TP405 TP406	M-2 M-4
IC5	B-2	Q12	D-2 *	TP400	L-3
IC6	B-2	Q13	D-2*	TP408	L-5
IC7	B-3	Q14	E-2*	TP409	G-2
IC8	B-3	Q401	N-6 *	TP410	E-3
IC11	B-5	Q402	N-4*	TP411	E-3
IC12	E-5	Q403	N-6	TP412	N-3
IC14	B-3	Q404	N-5	TP701	D-4
IC15	A-3	Q405	N-6	TP702	D-4
IC16 IC17	C-3	Q406	N-4	TP704	F-5
IC17	D-2 D-3	Q407 Q408	N-5 * N-4	TP705 TP706	F-5 F-3
IC19	D-3 D-4	Q409	N-5*	TP707	G-4
IC21	C-2	Q411	M-4*	TP708	G-4
IC22	C-2	Q412	M-6*		
IC23	D-1	Q414	J-2*	X1	C-4
IC28	D-3	Q415	L-2*	X2	B-4
IC29	D-4	Q416	E-2*	Х3	D-2
IC31	C-2	Q417	E-2*	X401	L-6
IC401	F-6	Q418	E-2*	ate and a sile .	D CIDE
IC402 IC403	M-2 M-5	Q419 Q420	E-3* N-6*	∗mark;	B SIDE mount
IC404	M-4	Q421	N-4*		
IC405	M-2	Q422	N-4*		
IC406	L-4	Q423	N-4*		
IC407	N-2	Q424	M-3 *		
IC408	H-6	Q425	N-2*		
IC409	L-2	Q427	M-3*		
IC410	K-2	Q428	M-3 *		
IC411	K-2	Q601	G-5*		
IC412	L-2	Q602	G-5*		
IC413 IC414	L-2 M-3	Q603 Q604	G-5* G-5		
IC414	IVI-3 J-4	Q605	G-5 M-5∗		
IC415	J-4 J-3	Q606	L-5*		
IC417	J-1	Q607	K-5*		
IC418	L-2	Q616	N-3		
IC420	H-4				
IC421	H-2	RV1	B-4		

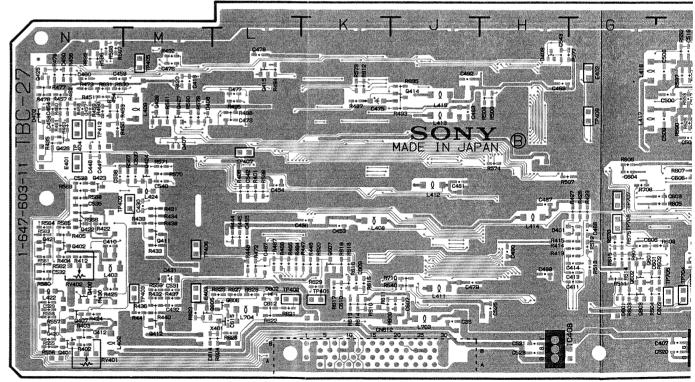
#### TBC-27 BOARD A Side



1-642-603-11 A SIDE

A Side is the same as Component Side

#### TBC-27 BOARD **B** Side

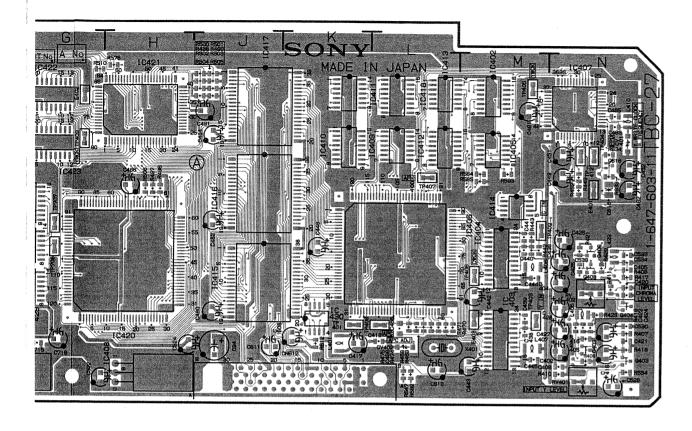


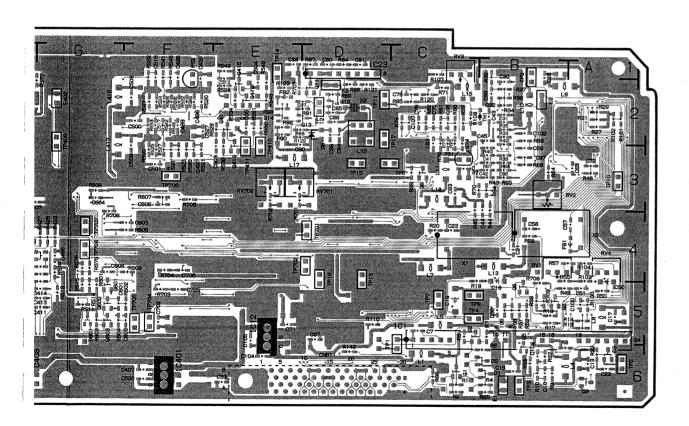
1-642-603-11 B SIDE

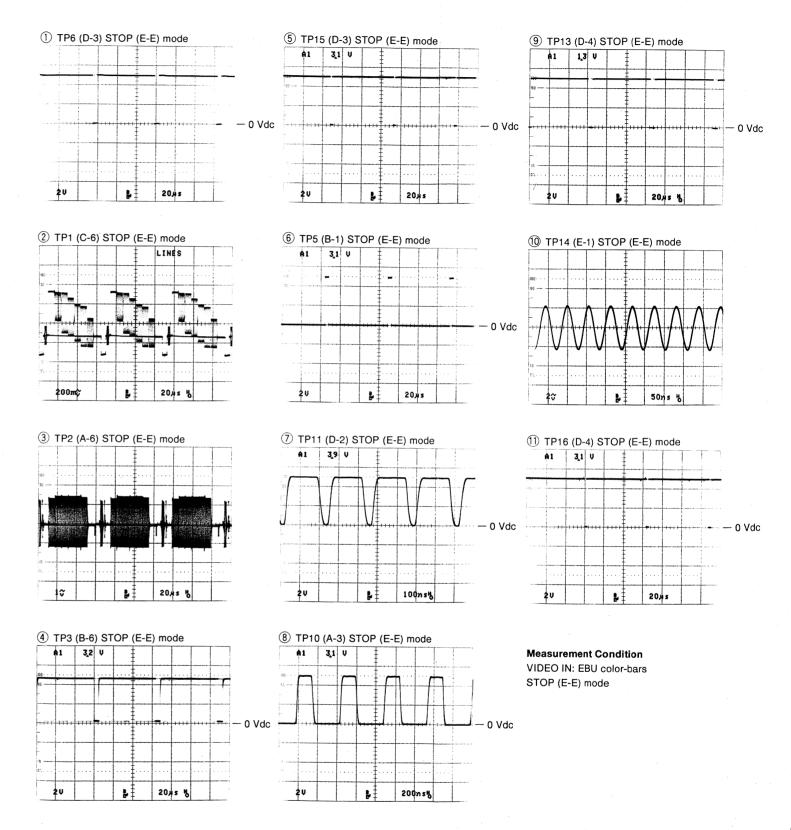
B Side is the same as Soldering Side

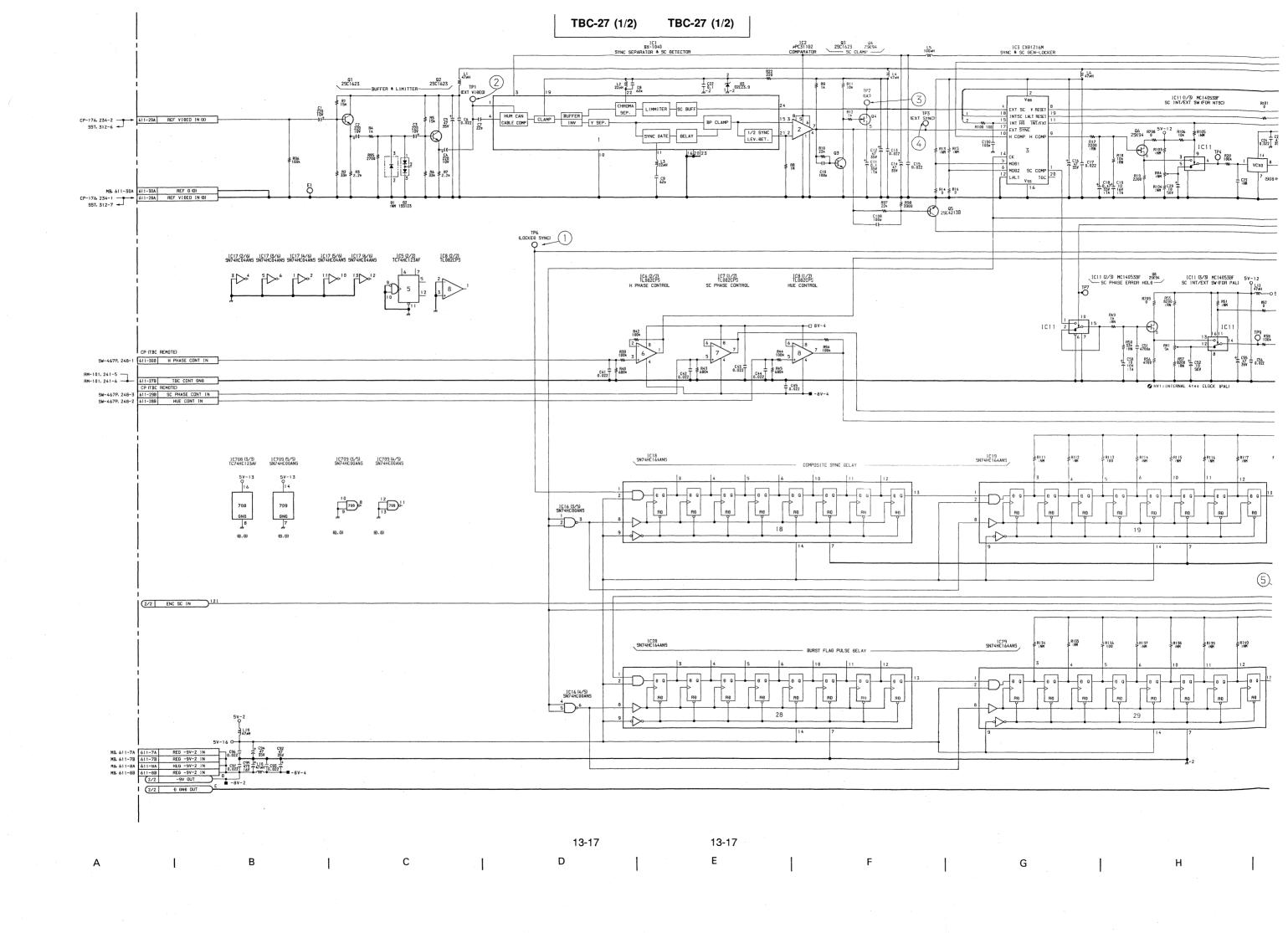
13-16

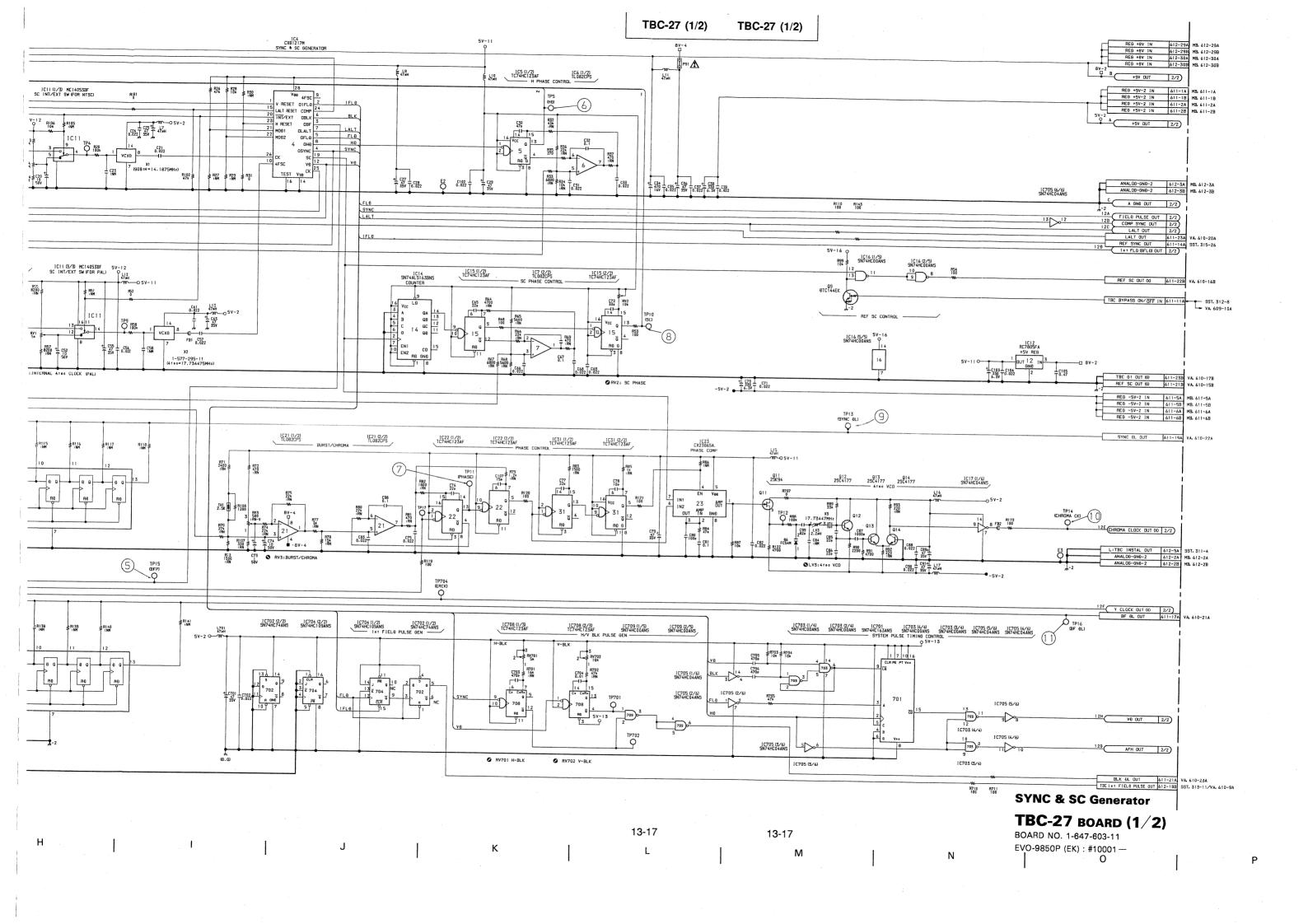
**TBC-27** 

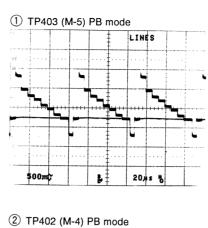




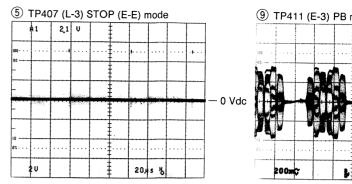


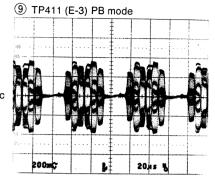


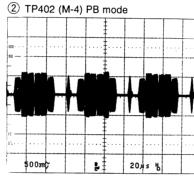


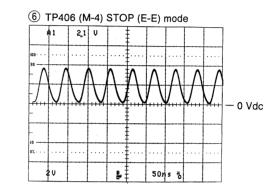


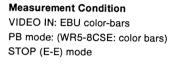
TBC-27 (2/2)

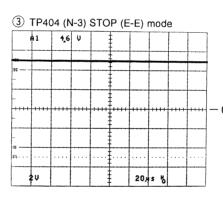


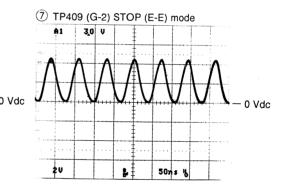


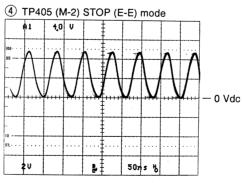


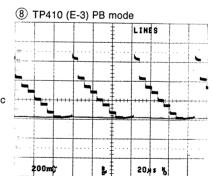


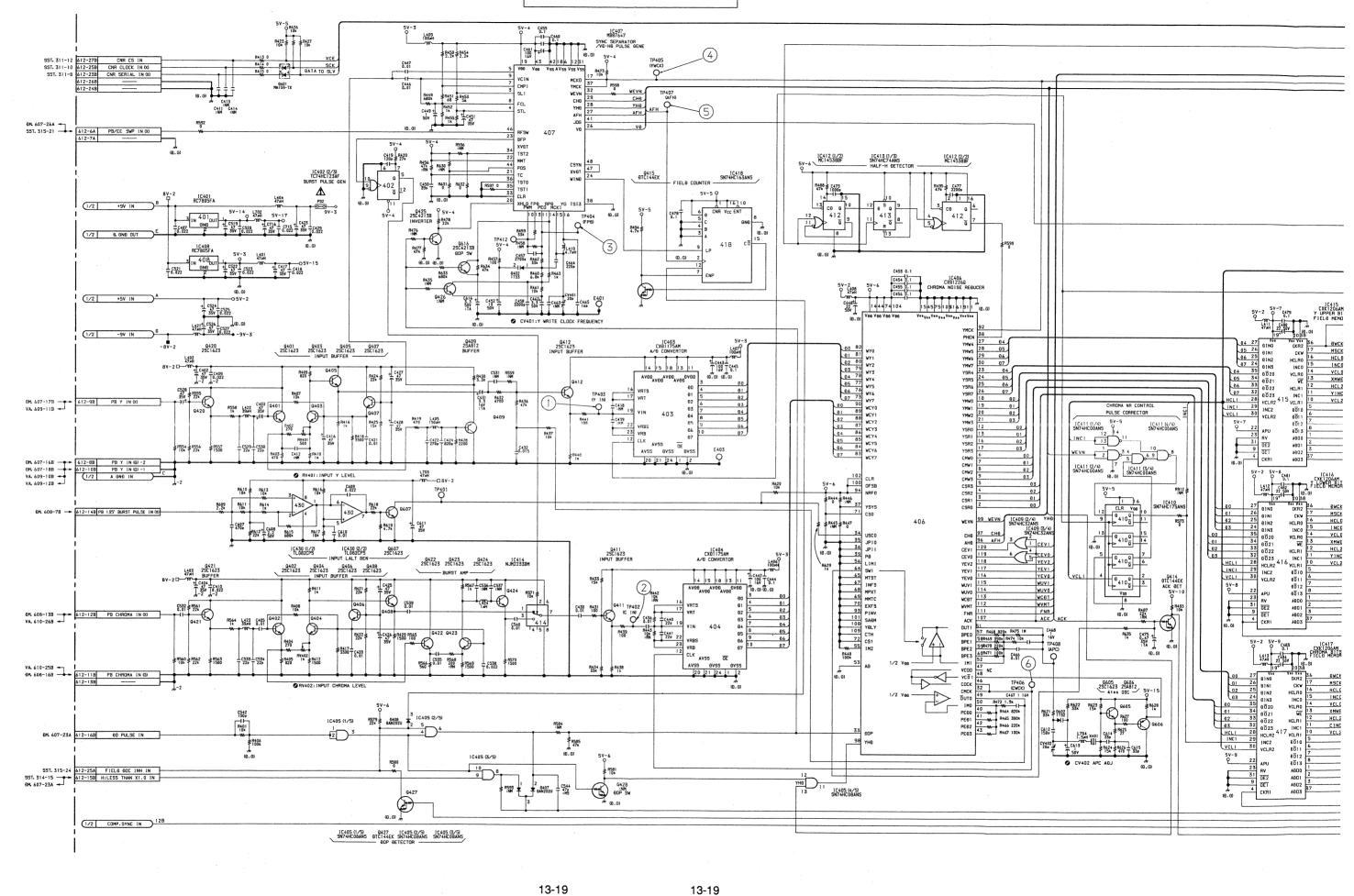












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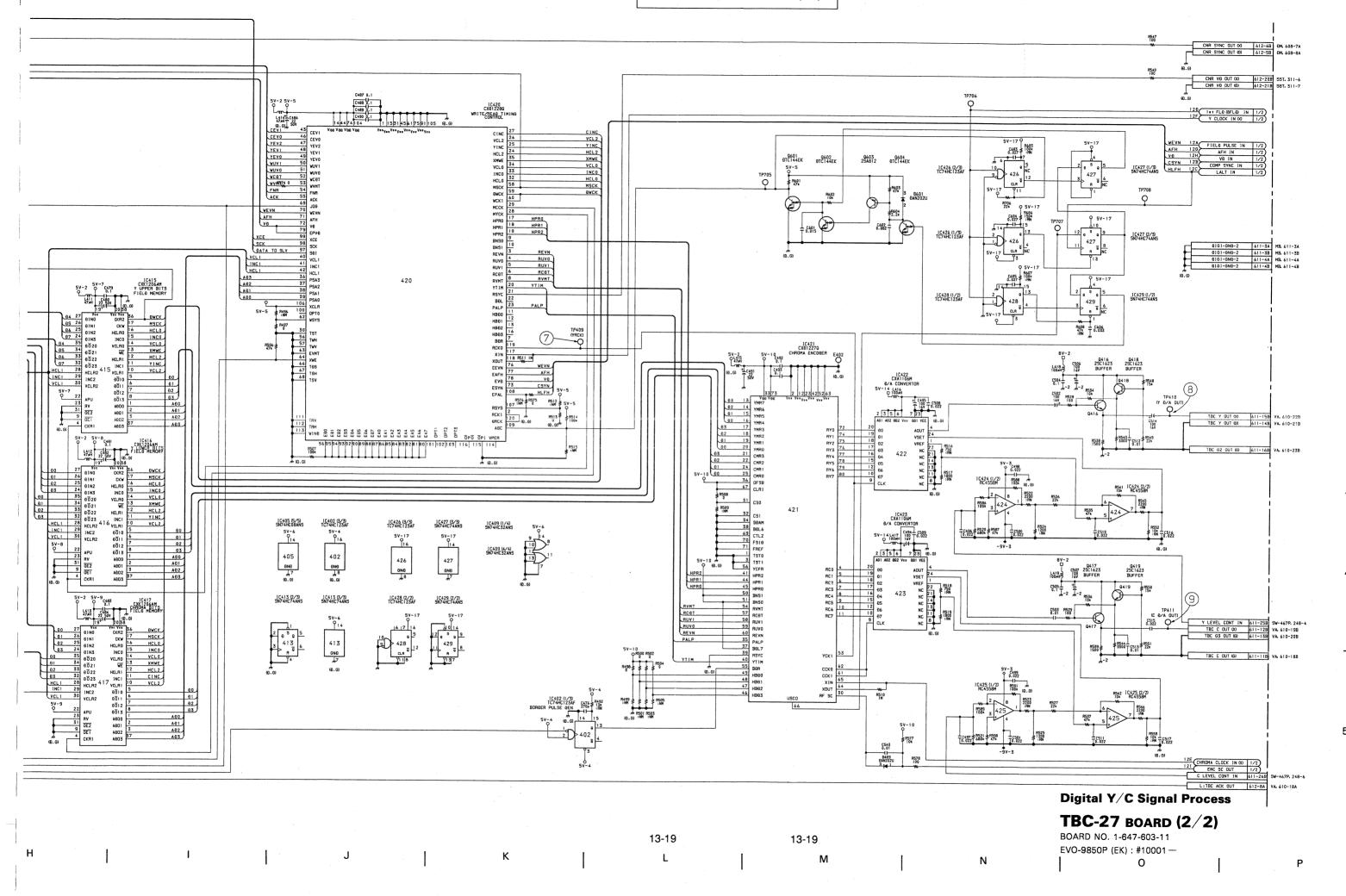
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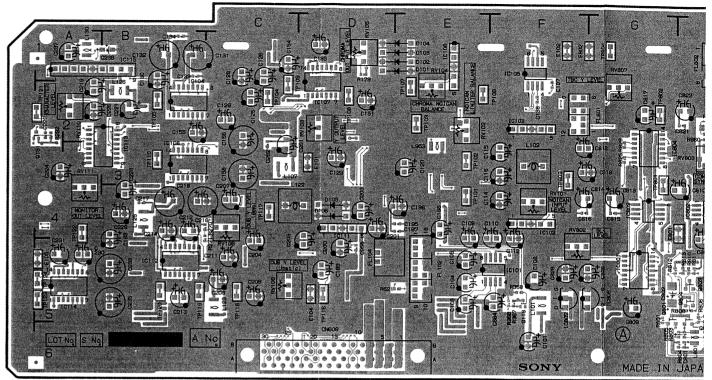
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#### VA-111AP (1-642-948-21) CN609 IC809 O173 1.5* BV808 CN610 IC951 K-5 Q174 N-3 * RV951 Q175 RV952 CV101 LV600 Q176 L-2* CV601 LV601 K-1 H-5 Q177 S101 L-3* Q178 L-5* S102 M-5 D101 F-1 PS801 Q179 M-3 * D102 TP101 Q180 L-5 D103 E-1 Q101 E-5* Q201 TP102 L-2 E-3 D104 E-1 Q102 F-5* Q202 TP103 L-3* E-2 D105 D-4 Q103 E-5* Q203 M-5 TP104 D106 D-4 Q104 E-3* Q204 M-5 TP105 D107 A-3* Q105 M-2* TP106 E-2 D108 D-3* Q106 E-2* Q601 N-2* TP107 F-2 D110 L-4 Q107 Q602 TP108 D-3 * N-2* D-2 D601 N-2* Q111 F-2* O603 K-1* TP109 D602 M-4 Q112 D-2* Q604 K-1* TP110 D801 H-2* Q113 Q605 D-5* TP111 D802 H-4* Q114 D-2* Q606 M-5* TP112 M-2 D803 H-4* Q115 C-1* O607 TP113 N-5* M-5 Q116 C-1* Q608 M-4* TP114 DL101 L-2 Q117 C-1* Q609 M-4* TP115 L-5 DL103 Q118 TP116 M-4* D-5 Q119 F-5 Q611 D-5* TP117 C-4 E101 Q120 F-1 * O612 H-5 TP118 C-5 E102 F-1 Q121 D-2 * Q613 H-5* TP119 E103 M-4 Q122 D-1* Q801 G-5 TP120 E104 L-1* Q802 H-5 TP121 A-2 E105 A-5 Q124 TP122 K-3* Q803 H-5 A-4 M-5 E106 Q125 L-2* Q804 H-5 TP123 A-5 F801 H-4 Q126 L-6* Q805 H-5* TP124 A-5 E802 G-1 Q127 L-5* TP125 G-2* K-5 Q129 Q807 TP126 G-2* K-4 FL101 L-4 Q130 N-5 Q808 TP601 G-2* M-3 FL102 F-5 Q131 L-5* Q809 G-3* TP602 M-2 FL103 Q132 L-5* Q810 H-2* TP801 FL104 Q133 L-5* Q811 G-2* TP802 G-2 FL801 F-2 Q134 L-5* Q812 J-1* TP803 F-3 FL802 H-1 Q135 L-5* Q813 H-1* TP804 G-1 Q136 E-4* Q814 H-1* TP805 J-2 IC101 Q138 D-5* Q815 IC102 Q139 D-5* Q816 G-1* X101 K-1 C-4* Q817 J-5* X601 K-1 IC104 B-2 Q142 C-5* Q818 K-5* IC105 F-2 Q143 D-5* Q819 J-2 *mark; B SIDE mount IC106 E-1 Q144 C-5* Q951 K-5* IC107 D-2 Q145 C-5* Q952 J-5* C-4* Q953 K-4* IC109 K-4 Q147 C-5* IC110 L-5 RV101 F-4 Q148 C-5* IC111 D-4 Q149 A-2* RV102 E-2 IC112 B-5 Q151 RV103 D-2 A-2 A-3* RV104 E-2 IC114 A-5 Q153 RV105 A-2* D-1 IC115 A-1 Q154 A-2* RV106 N-6 IC116 L-1 Q155 A-2* RV107 JC117 Q156 A-3* RV108 C-5 RV109 C-4 M-3 IC601 Q158 B-2* RV110 A-2 IC602 M-5 Q159 RV111 A-4 B-3 * IC603 M-2 O160 B-4* RV201 IC801 G-5 Q161 A-4* RV600 IC802 RV602 H-5 IC803 G-4 Q163 L-2 RV603 H-5 IC804 G-2 Q164 L-2 RV802 F-5 IC805 H-2 Q165 M-2* RV803 IC806 G-5 Q170 C-5* RV805 K-4 F-5 Q171 M-3 * RV806 J-4 IC808 J-5 Q172 L-5* RV807 G-2

#### VA-111AP BOARD A Side

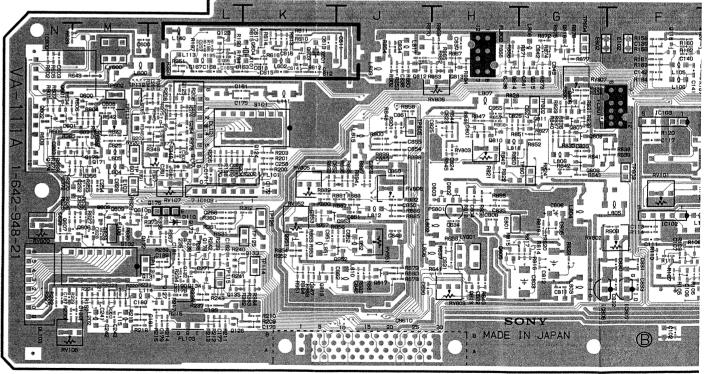


1-642-948-21 A SIDE

A Side is the same as Component Side

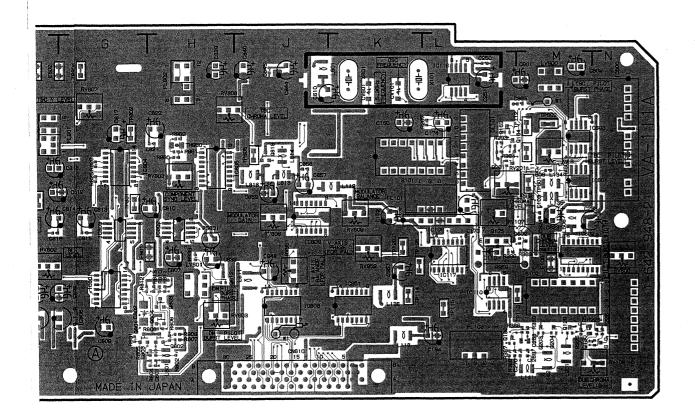
## VA-111AP BOARD

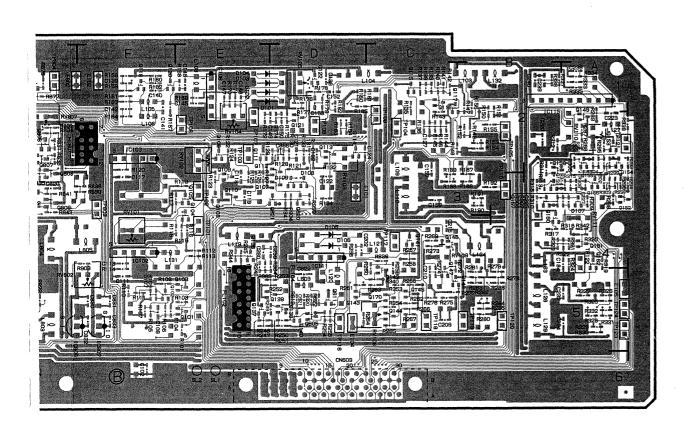
**B** Side

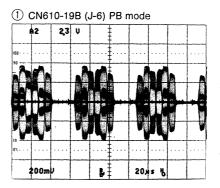


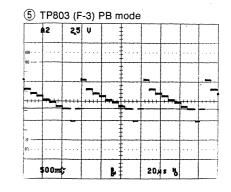
1-642-948-21 B SIDE

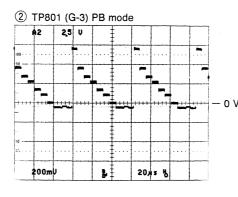
B Side is the same as Soldering Side

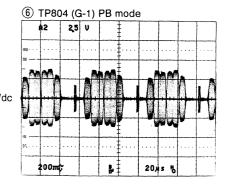


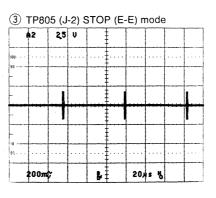


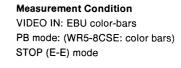


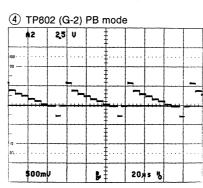


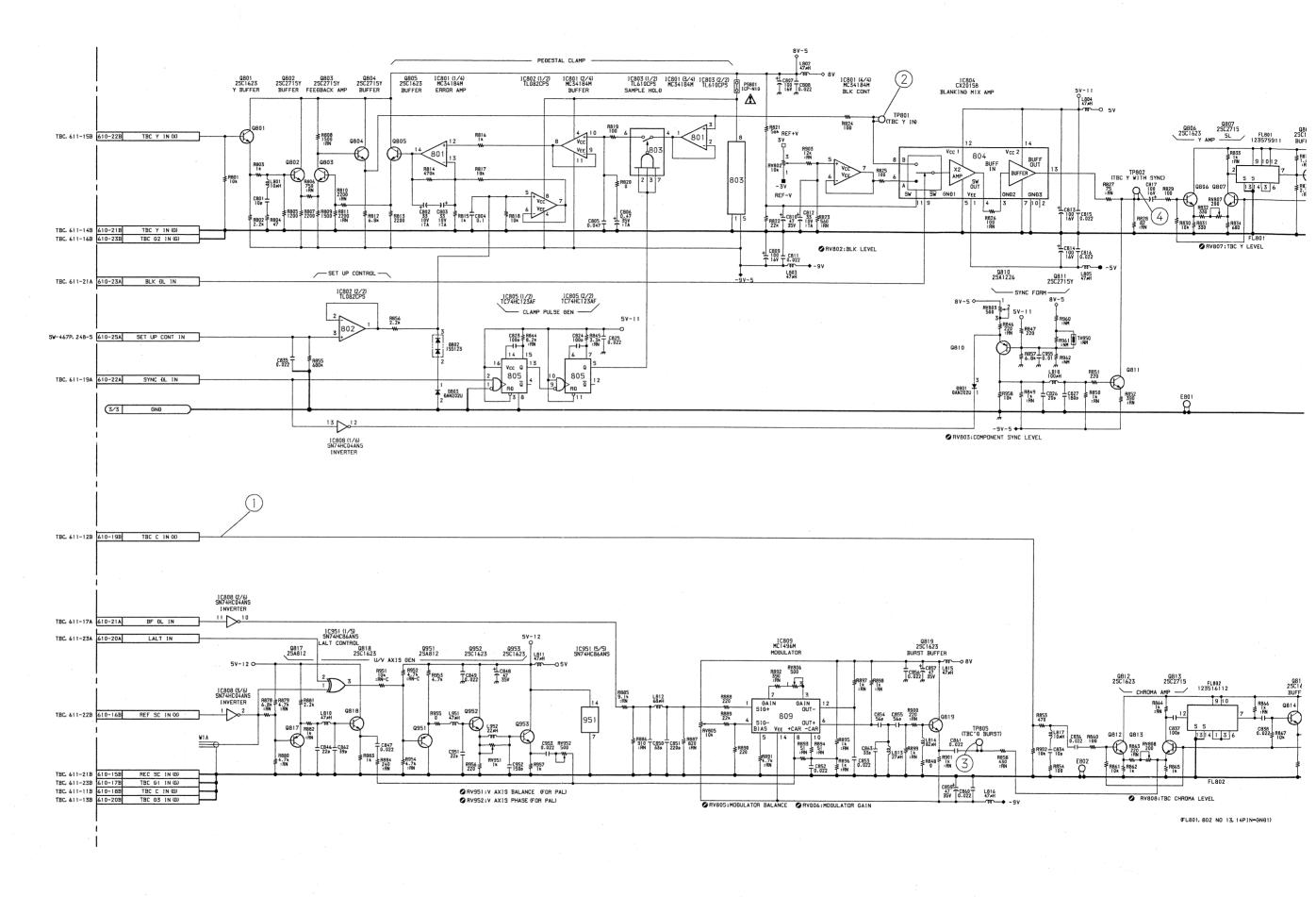












13-21

D

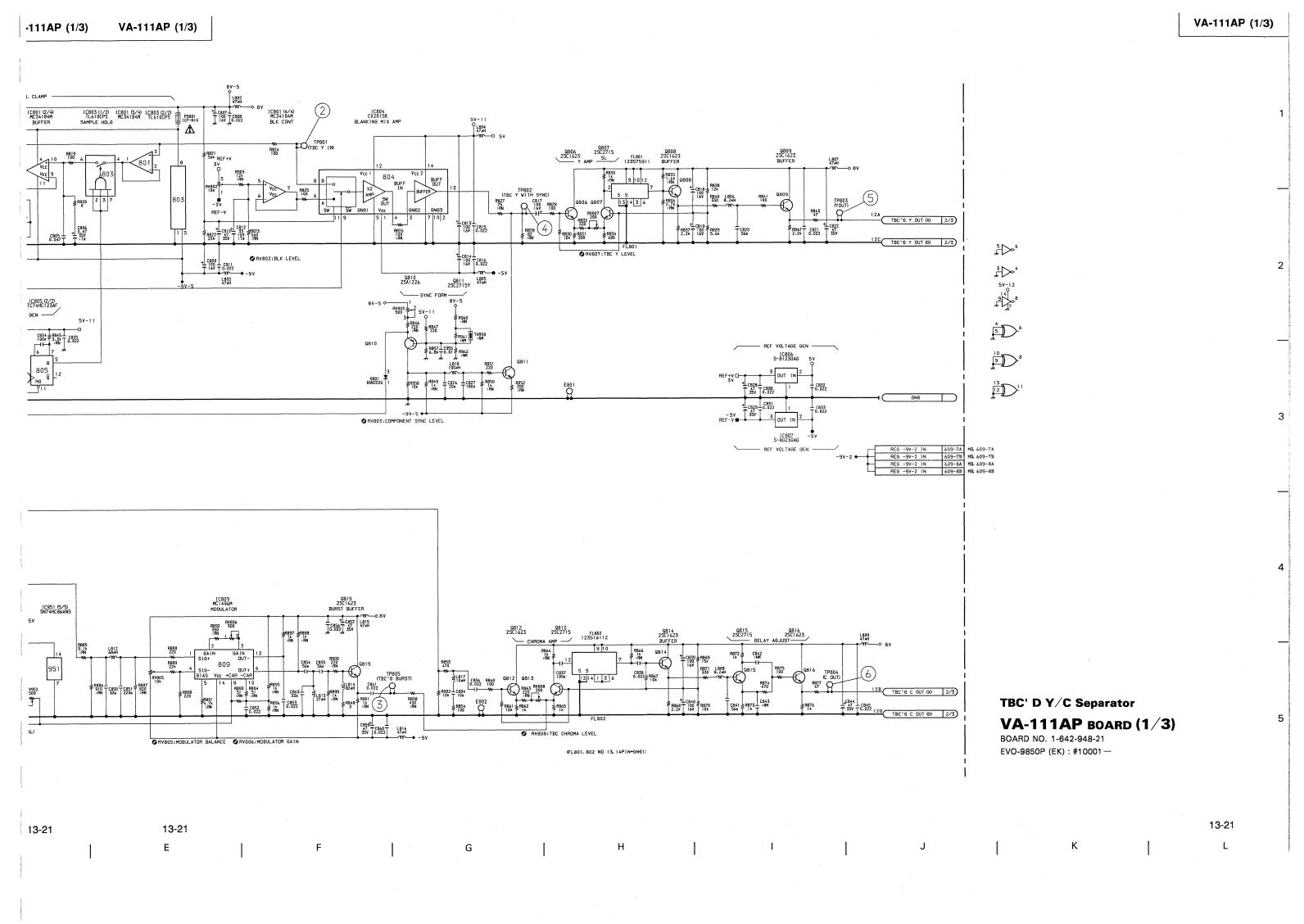
С

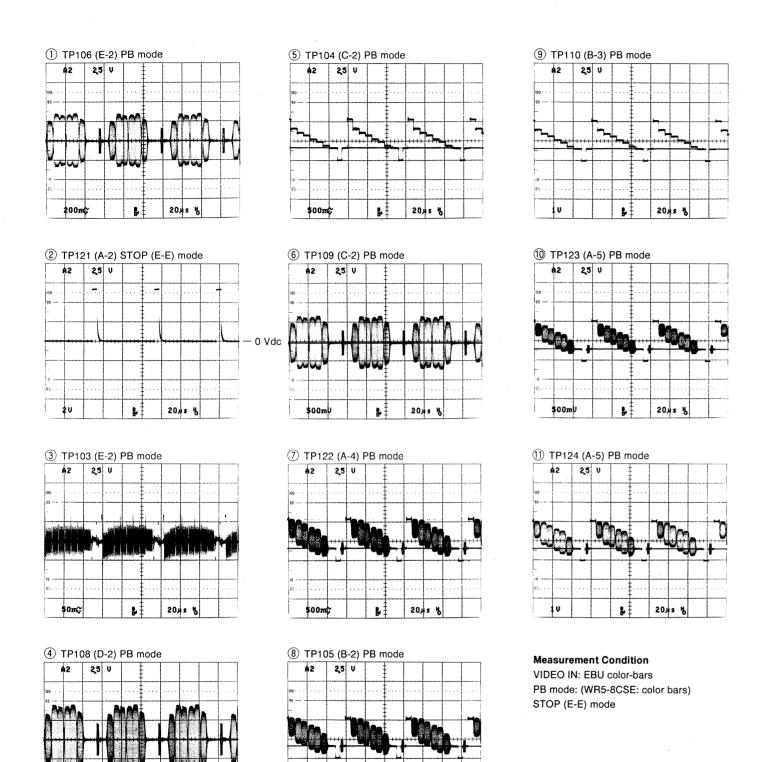
Ε

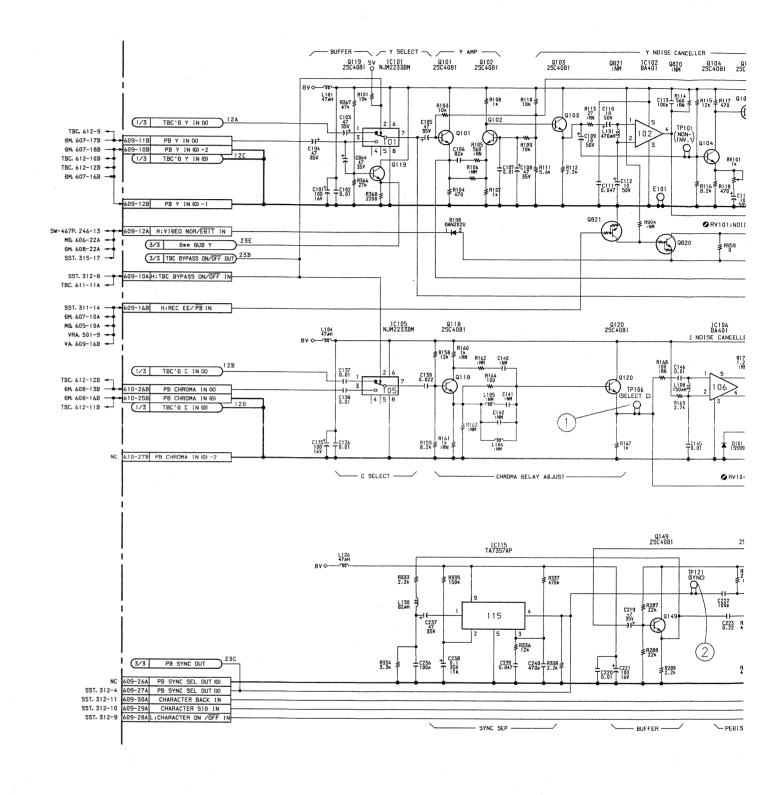
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13-23

Ε

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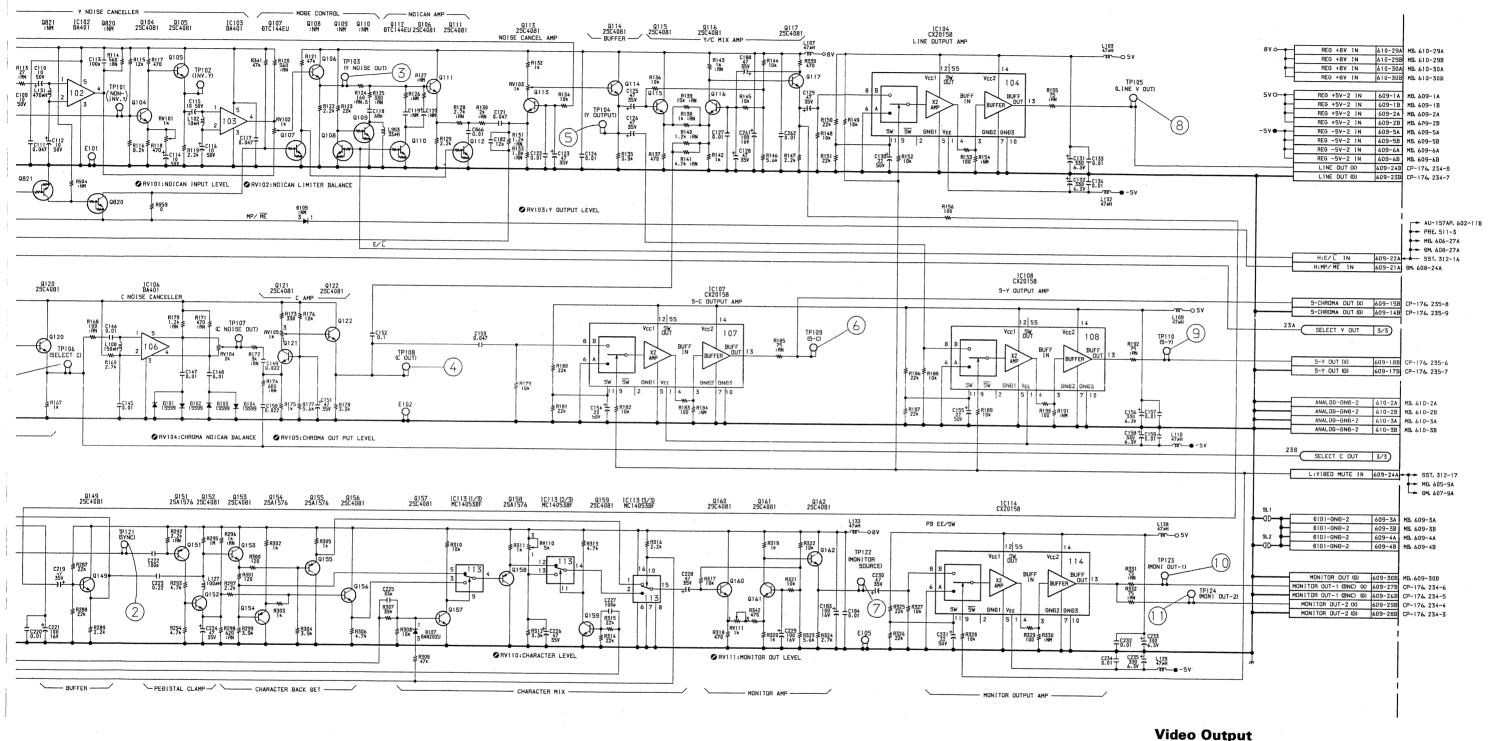
В

20 Js 18

С

20 x 5 %

D

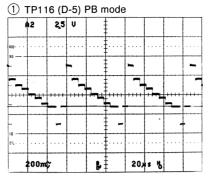


**VA-111AP** BOARD (2/3)

BOARD NO. 1-642-948-21 EVO-9850P (EK): #10001-

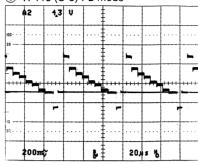
13-23 0

13-23

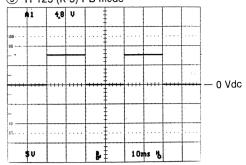


VA-111AP (3/3)

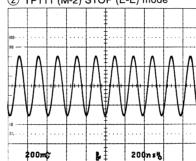
⑤ TP118 (C-5) PB mode



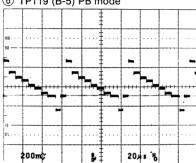
9 TP125 (K-5) PB mode



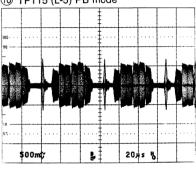
② TP111 (M-2) STOP (E-E) mode



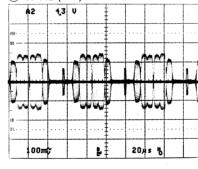
6 TP119 (B-5) PB mode

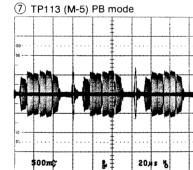


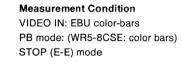
10 TP115 (L-5) PB mode



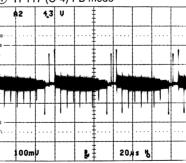
## ③ TP112 (M-2) PB mode

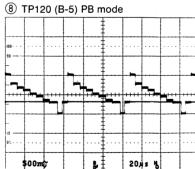


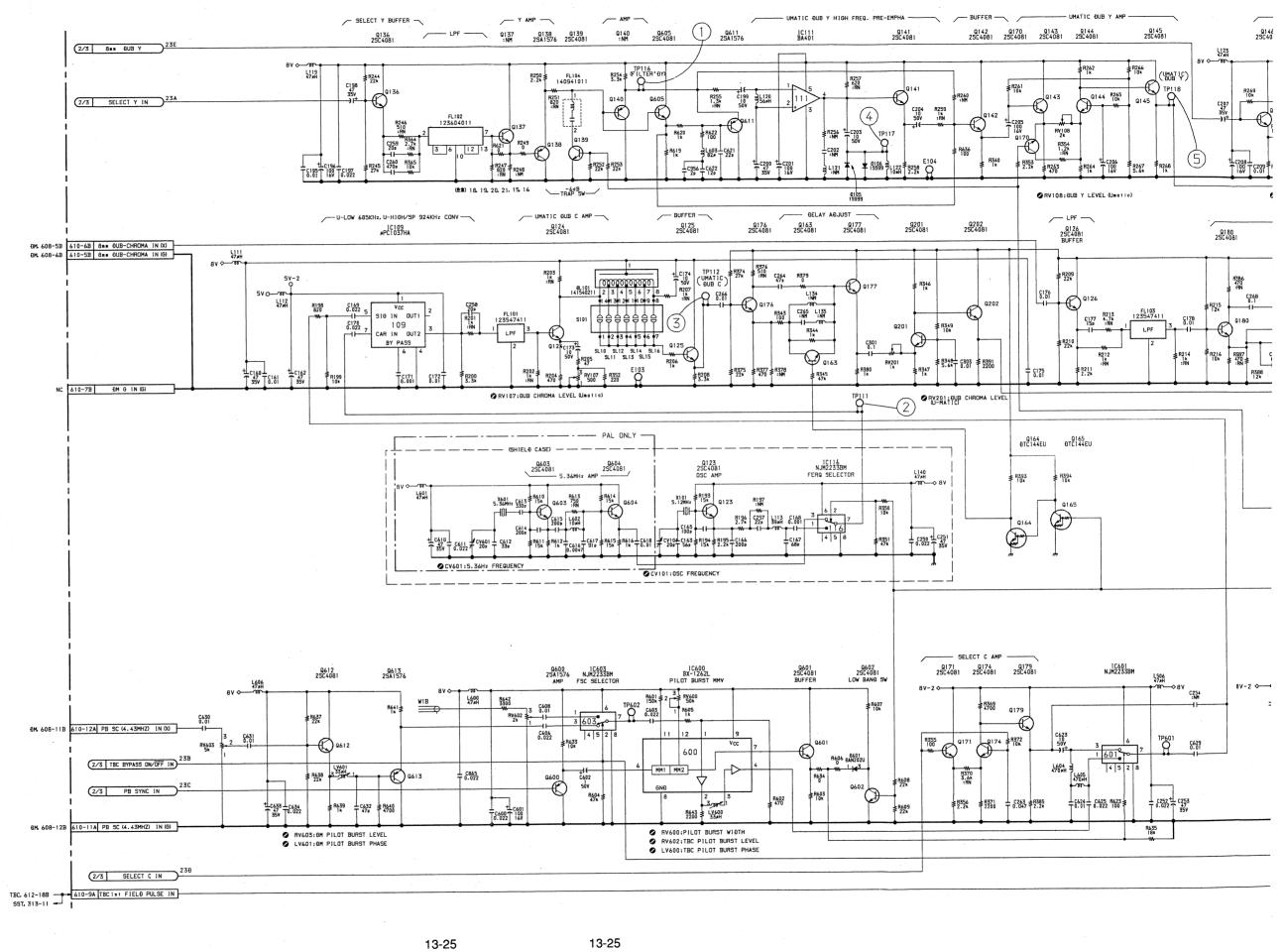




#### 4 TP117 (C-4) PB mode

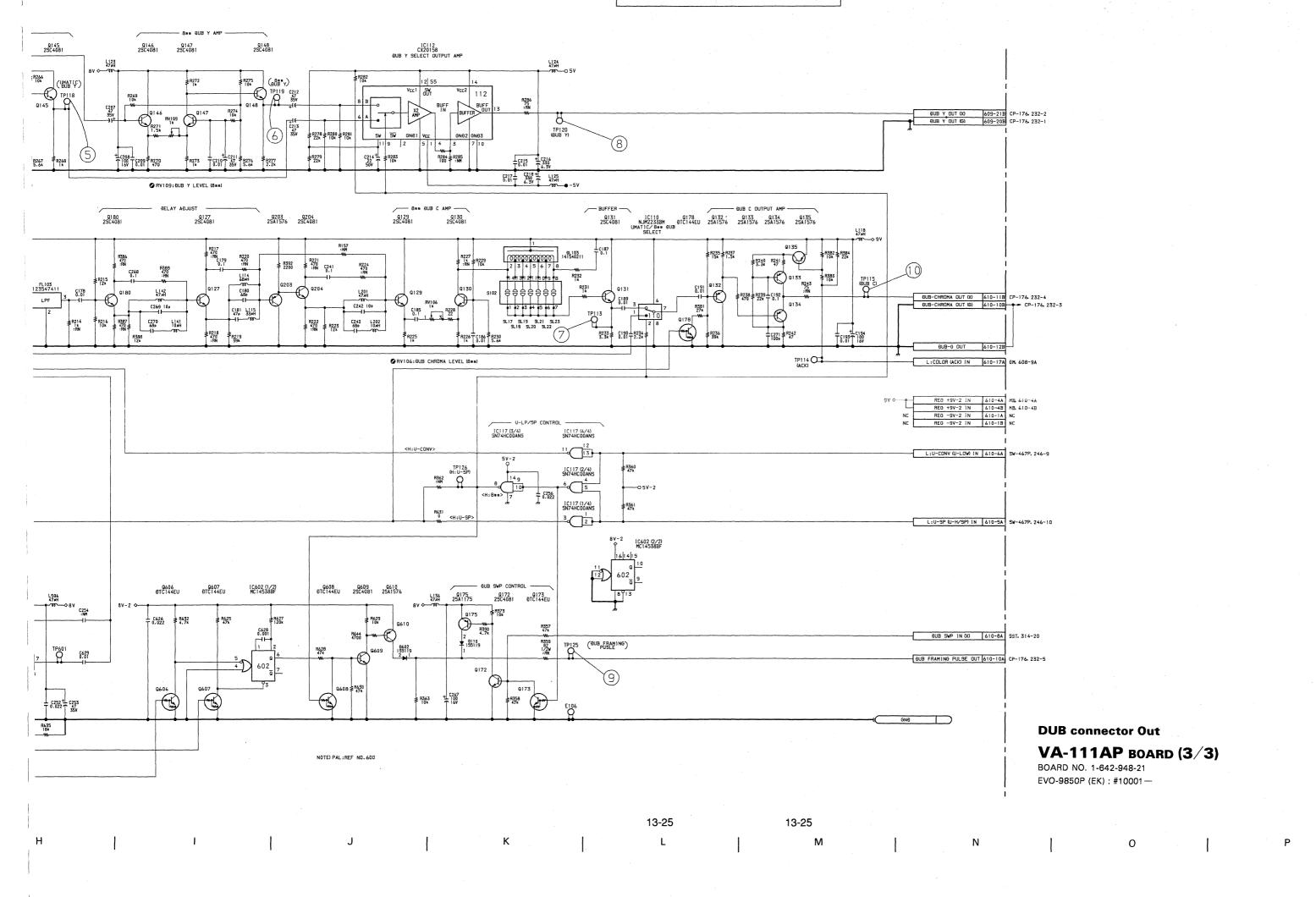






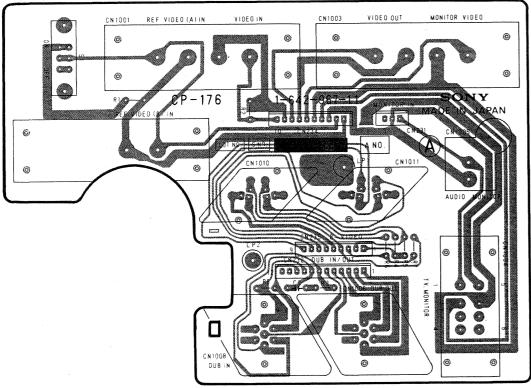
13-25 13-25

A | B | C | D | E | F | G | H



5

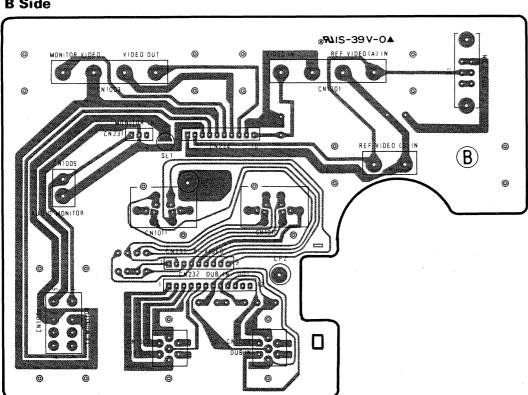
## CP-176 BOARD A Side



1-642-967-11 A SIDE

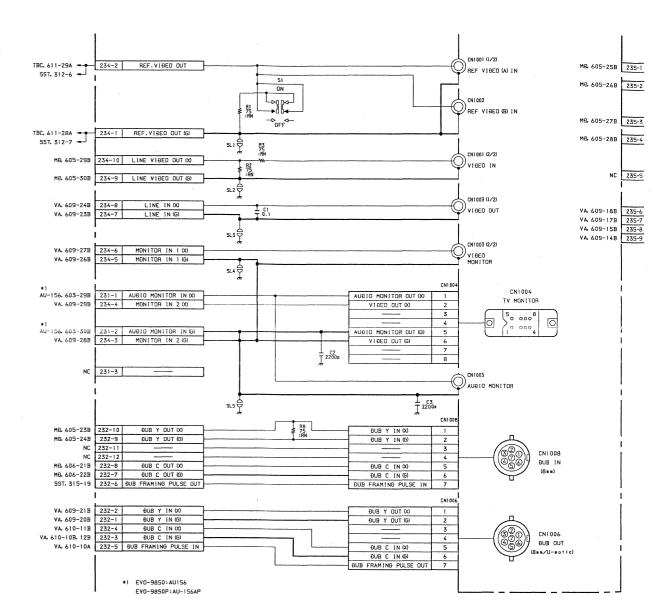
A Side is the same as Component Side

## CP-176 BOARD **B** Side



1-642-967-11 B SIDE

B Side is the same as Soldering Side



13-27

13-27

G

В

С

D

**CP-176** 

CP-176

CN1010 5 VIĐEO IN L;S CONNECTOR IN G NC 235-5 L:S CONNECTOR OUT CN1006 DUB OUT (8mm/U-matic) Audio Input/Output CP-176 BOARD

BOARD NO. 1-642-967-11

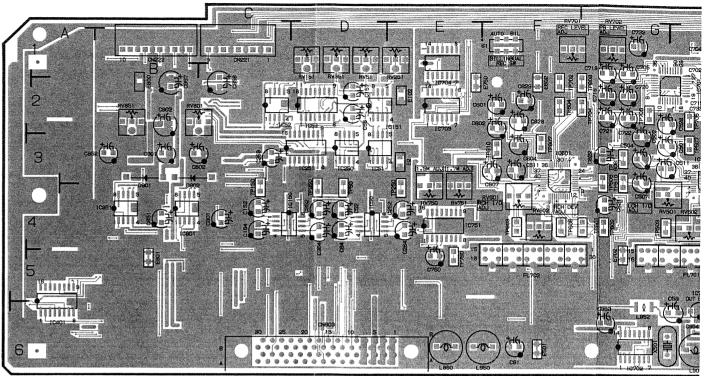
EVO-9850P (EK): #10001-

13-27

13-27

AU-156AP

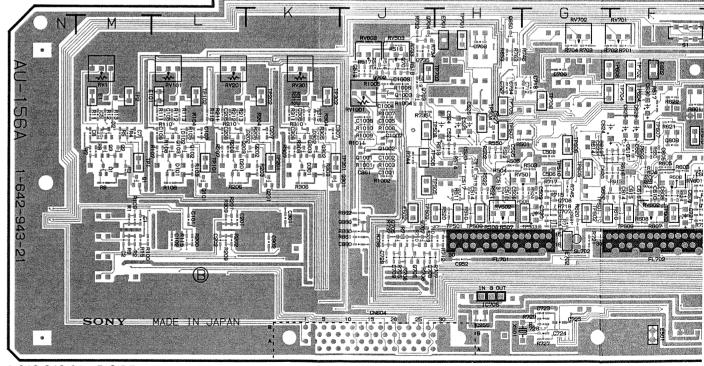
## **AU-156AP** BOARD A Side



1-642-943-21 A SIDE

A Side is the same as Component Side

# **AU-156AP** BOARD **B** Side



1-642-943-21 B SIDE

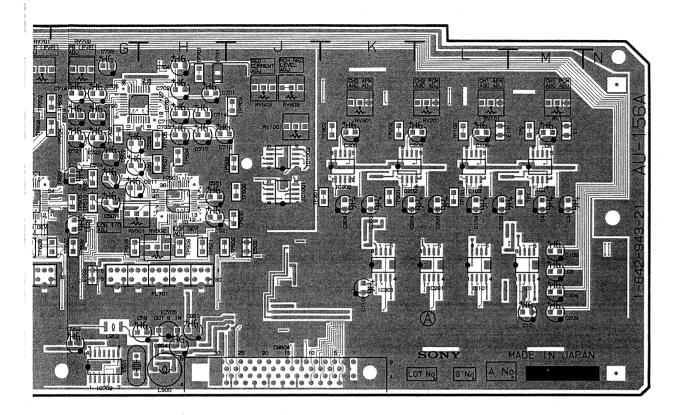
B Side is the same as Soldering Side

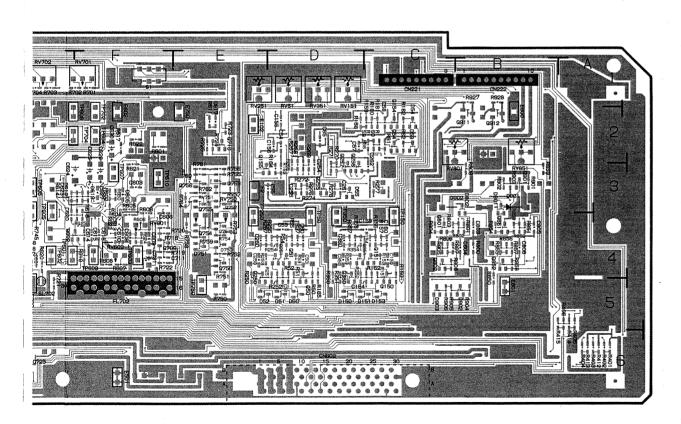
CN221	C-1	IC705	H-4	RV251	D-1
CN222	B-1	IC751	E-3	RV301	K-1
CN603	D-4	IC801	B-3	RV351	D-1
CN604	J-4	IC851	A-3	RV501	G-2
		IC1001	J-2	RV502	H-3
D1	M-2*	IC1002	J-2	RV503	J-1
D2	M-2*			RV601	F-2
D50	D-3 *	Q1	M-2*	RV602	F-3
D51	D-3*	Q2	M-2*	RV603	J-1
D52	D-3*	Q3	M-2*	RV701	F-1
D53	C-2*	Q50	D-3 *	RV702	G-1
D54	C-1 *	Q51	D-3 *	RV750	E-2
D55	C-2*	Q54	C-2*	RV751	E-2
D101	L-2*	Q101	L-2*	RV801	B-2
D102	L-2*	Q102	L-2*	RV851	A-2
D150	C-3*	Q103	L-2*	RV1001	J-1
D151	C-3*	Q150	C-3 *		
D153	C-3*	Q151	C-3*	·S1	F-1
D201	L-2*	Q154	C-1 *		
D202	K-2*	Q155	D-2*	TP1	M-2
D301	K-2*	Q201	K-2*	TP2	M-1
D302	K-2*	Q202	K-2*	TP50	D-2
D750	E-3*	Q203	L-2*	TP101	L-2
D751	E-3*	Q250	D-3*	TP102	L-1
D801	B-2*	Q251	D-3 *	TP150	C-2
D802	B-2*	Q255	D-2*	TP201	K-2
D901	B-2	Q256	C-2*	TP202	K-1
D902	B-2	Q257	C-2*	TP250	D-2
D903	B-3*	Q301	J-2*	TP301	J-2
		Q302	K-2*	TP302	K-1
E1	M-1	Q303	K-2*	TP350	C-2
E2	D-2	Q350	C-3*	TP501	H-3
E101	L-1	Q351	C-3*	TP502	H-3
E102	D-1	Q602	F-3*	TP503	G-3
E501	F-4	Q701	J-1*	TP504	H-2
E502	J-3	Q702	J-1 *	TP505	H-2
E602	F-1	Q703	H-1*	TP506	H-2
E701	H-1	Q704	H-1*	TP507	H-2
E702	G-3	Q705	J-3 *	TP508	H-2
E750	E-1	Q706	J-3 *	TP509	H-3
E800	B-1	Q707	H-3 *	TP510	G-2
E801	B-3	Q708	G-3 *	TP601	F-3
		Q709	E-3*	TP602	G-3
FL701	H-3	Q710	E-2*	TP603	F-3
FL702	F-3	Q750	E-3*	TP604	F-1
		Q751	E-2*	TP605	G-2
IC1	M-3	Q752	E-2*	TP606	G-2
IC2	M-2	Q753	E-2*	TP607	F-2
IC50	D-3	Q754	E-2*	TP608	F-1
IC51	D-2	Q755	E-2*	TP609	F-3
IC52	C-2	Q756	E-2*	TP610	E-2
IC53	C-2	Q801	B-2*	TP701	H-1
IC101	L-3	Q802	B-3*	TP702	F-1
IC102	L-2	Q851	B-2*	TP703	H-1
IC150	C-3	Q852	B-3 *	TP704	F-1
IC151	D-2	Q860	J-3*	TP705	H-2
IC201	L-3	Q901	A-2*	TP706	G-1
IC202	K-2	Q902	B-3*	TP750	E-3
IC250	D-2	Q911	B-1*		
IC251	C-2	Q912	B-1*	X501	G-4
IC301	K-3	Q1001	J-2*		-
IC302	K-2	Q1002	J-2*	* mark ; E	SIDE mour
IC401	A-4	Q1003	J-1*		
IC501	H-2				
IC601	F-2	RV1	M-1		
IC701	G-1	RV51	D-1		
IC702	G-4	RV101	L-1		
10703	F-2	DV151	C-1		

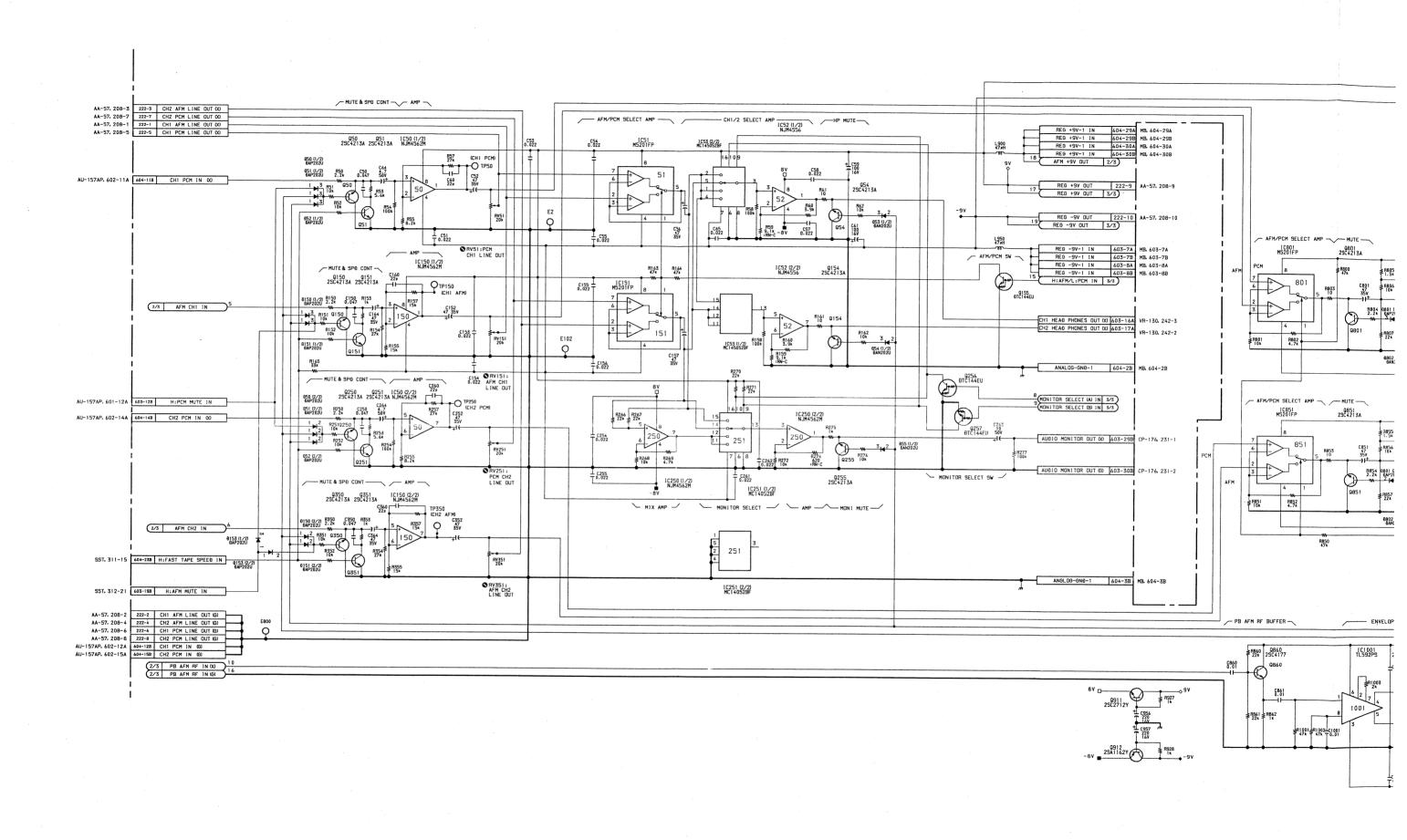
RV201

IC704

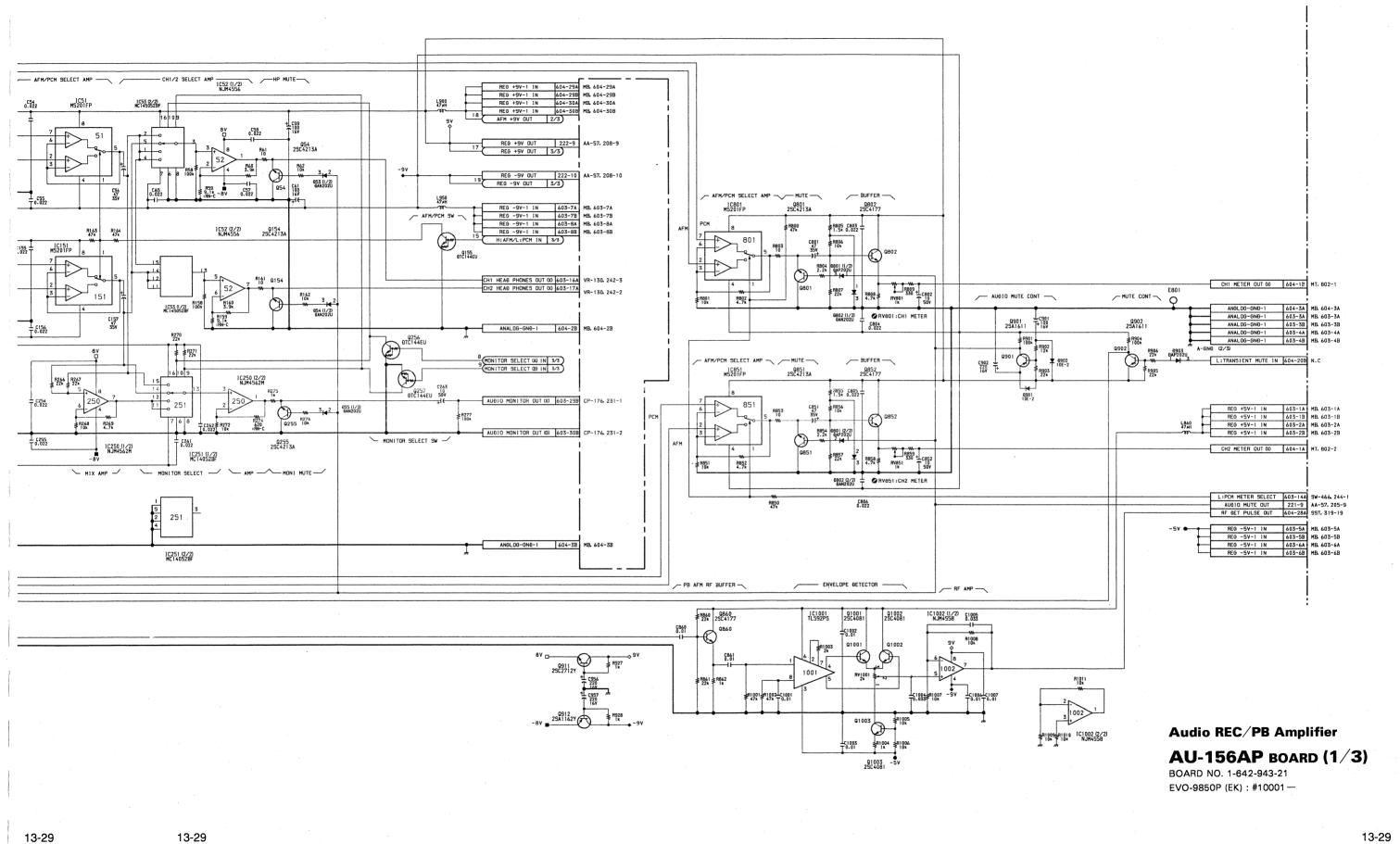
**AU-156AP** 





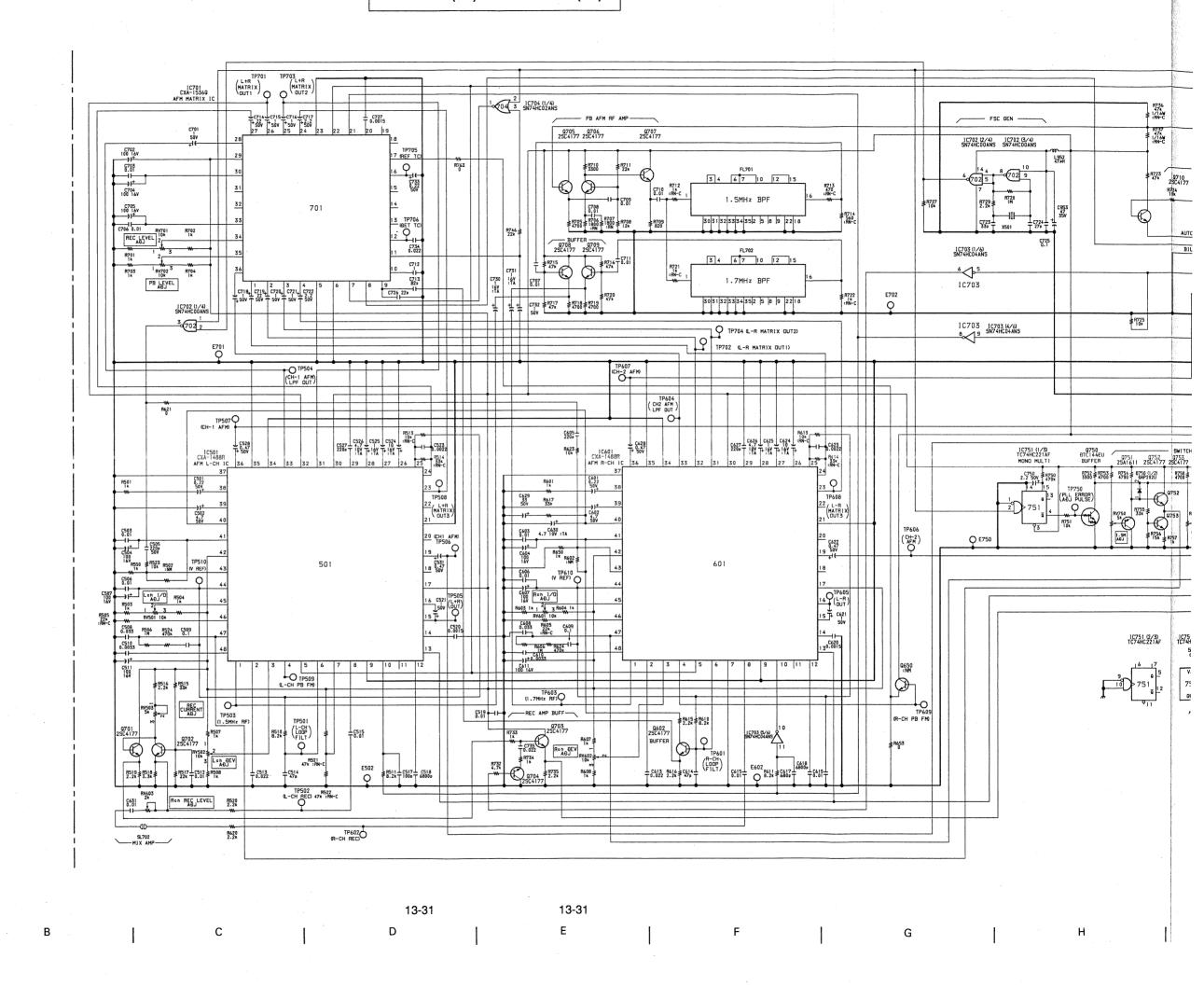


13-29 13-29 Ε G H

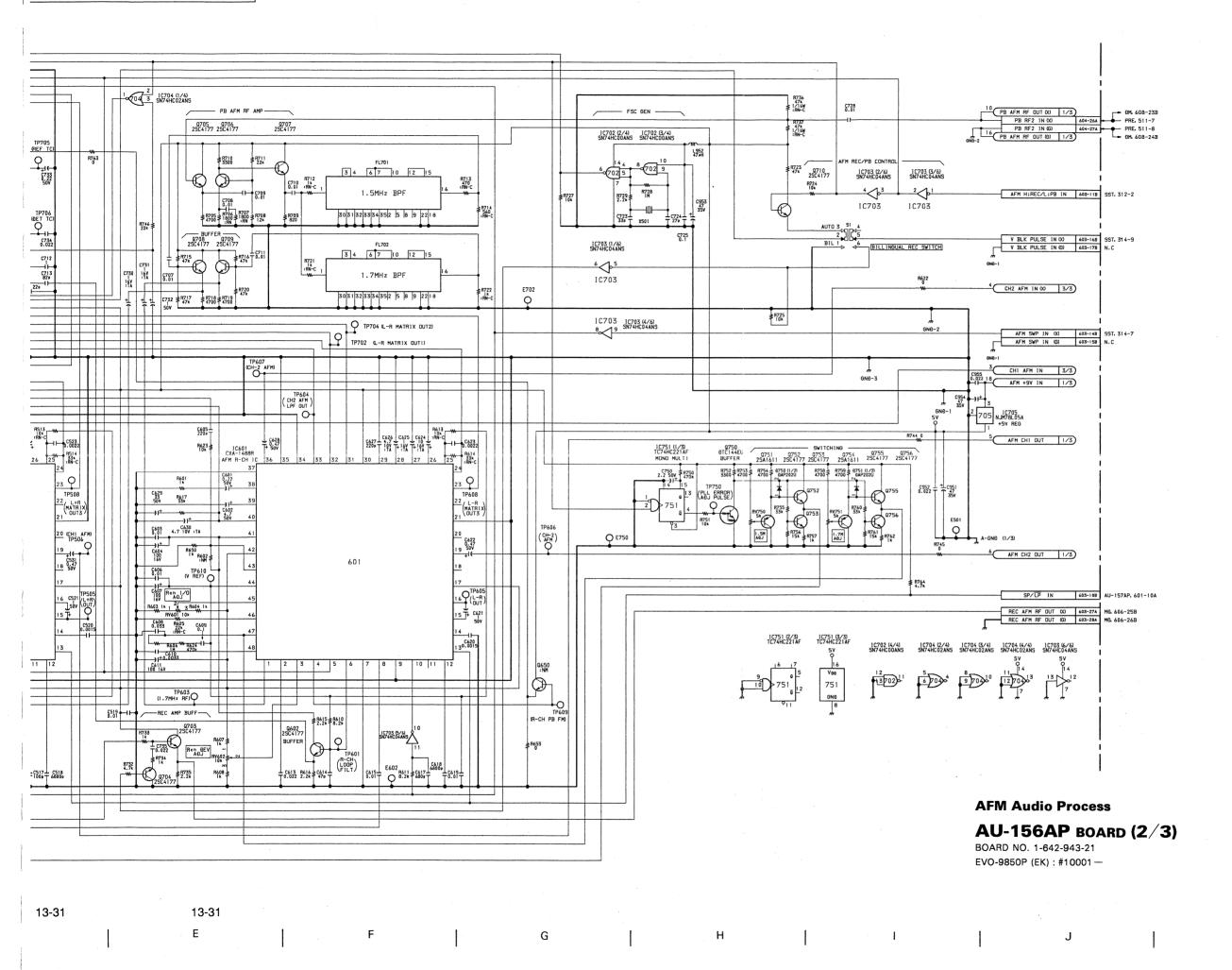


13-29

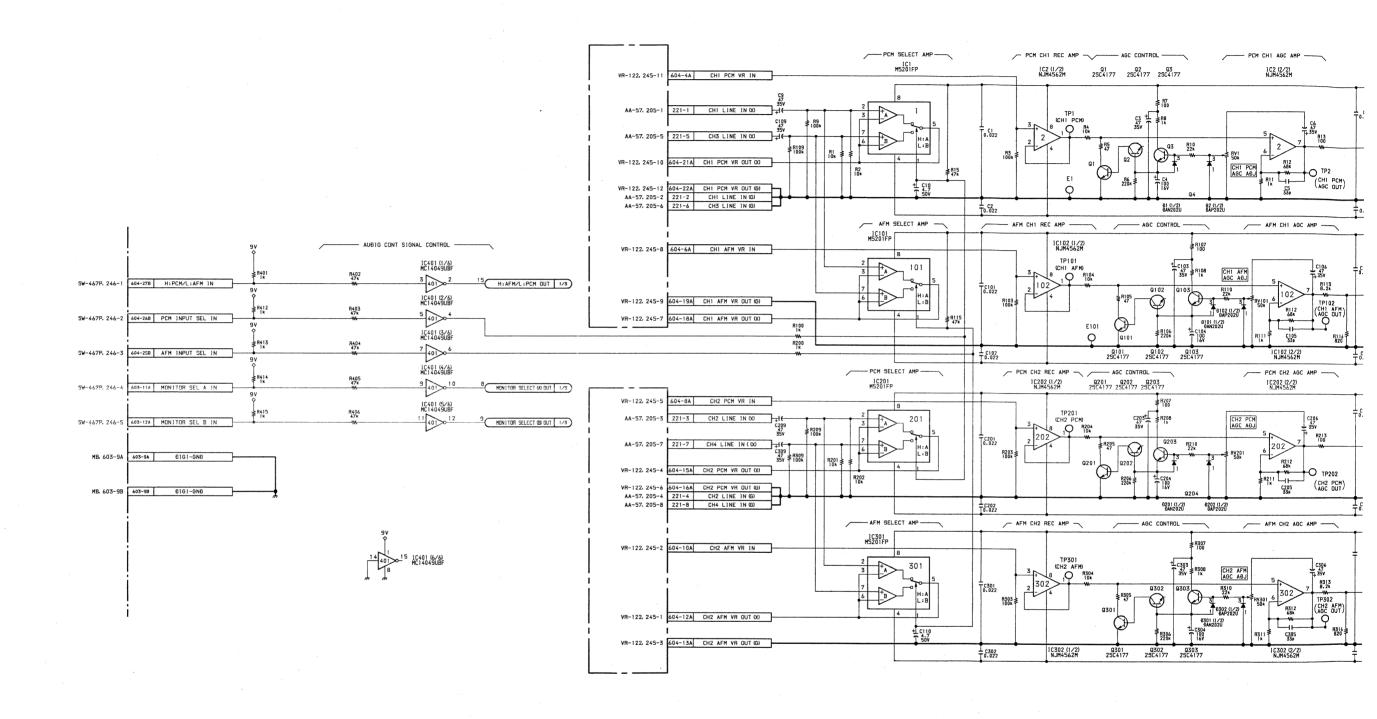
G



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AU-156AP (3/3)

AU-156AP (3/3)

1C2 (2/2) NJM4562M ___ AFM CHI AGC AMP ____ CHI AFM DUT (X) 2/3 AFM CH2 AGC AMP C307 0.022 4 CH2 AFM OUT (X) 2/3 **Select Buffer AU-156AP BOARD (3/3)** BOARD NO. 1-642-943-21

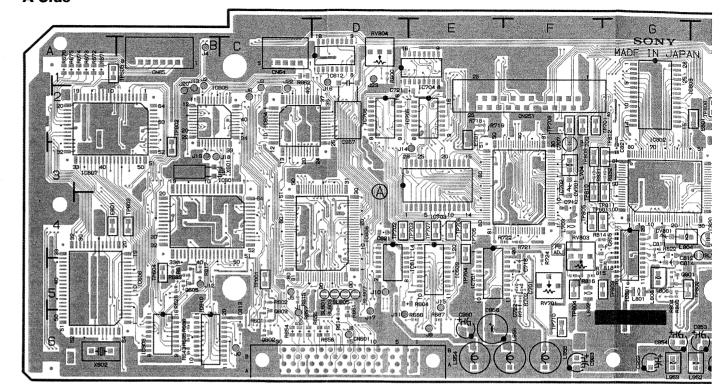
EVO-9850P (EK) : #10001 --

13-33 13-33

3

H-3

## **AU-157AP** BOARD A Side

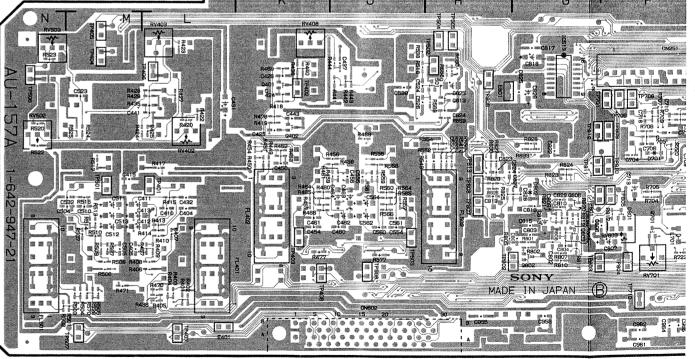


1-642-947-21 A SIDE

A Side is the same as Component Side

# **AU-157AP** BOARD

**B** Side



1-642-947-21 B SIDE

B Side is the same as Soldering Side

CN65 CN251 CN601 CN602 CV701 F-3 Q608 B-4* CV801 G-4 Q609 B-3* Q610 J-6 D601 D-4* Q611 D602 B-4* Q612 H-2 D603 B-4* Q613 H-2* D604 C-4* Q701 F-5* D605 D-4* D606 B-5* Q802 G-5* F-3* D701 Q803 G-5* D801 F-4* Q806 G-4* D802 G-4* L-3 E401 L-6 RV403 L-1 E601 RV408 A-4 K-1 E701 E-2 RV502 N-3 E801 H-2 RV503 RV701 FL401 L-5 RV803 K-4 FL402 RV804 D-1 FL501 N-5 FL502 H-4 TP401 TP402 IC401 TP403 K-5 IC402 M-5 TP404 M-1 IC403 TP405 M-1 IC404 M-2 TP406 L-2 IC405 TP407 L-2 L-6 J-2 TP408 IC406 K-5 IC407 K-2 TP501 M-4 IC408 K-3 TP502 IC409 J-3 TP503 J-5 J-5 IC410 TP504 H-1 IC501 M-6 TP505 H-1 IC503 M-3 N-2 TP506 IC508 H-3 TP507 M-6 IC510 J-5 TP508 J-5 IC601 B-4 TP601 C-5 IC603 B-6 TP602 B-3 C-2 IC604 TP603 B-4 B-5 IC605 B-2 TP604 IC606 A-5 TP605 A-1 IC607 A-2 TP701 F-2 IC608 D-4 TP702 D-4 E-4 IC609 TP703 E-4 IC610 B-6 TP704 E-4 IC611 D-4 TP705 E-4 IC612 D-1 TP706 E-4 G-1 TP707 E-4 IC613 E-4 TP708 F-2 IC701 IC702 F-3 TP709 F-2 IC703 D-4 TP710 IC704 D-1 TP801 G-4 IC705 E-2 TP802 G-5 G-5 IC706 D-2 TP803 IC801 TP804 IC802 G-3 TP805 G-1 IC803 TP806 H-2 TP807

Q401

Q402

Q501

Q502

K-2*

K-3*

H-2*

H-3

TP808

TP809

TP810

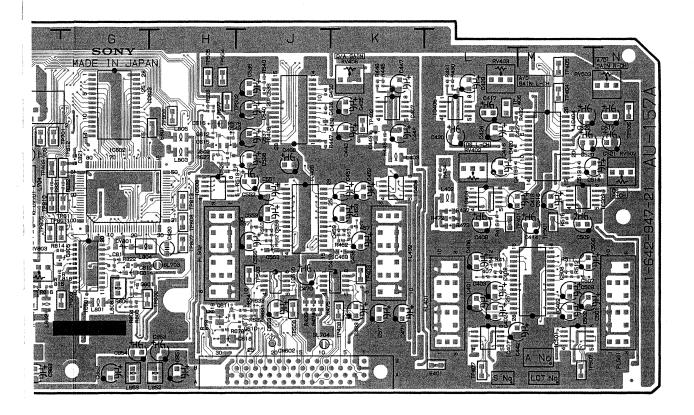
TP811

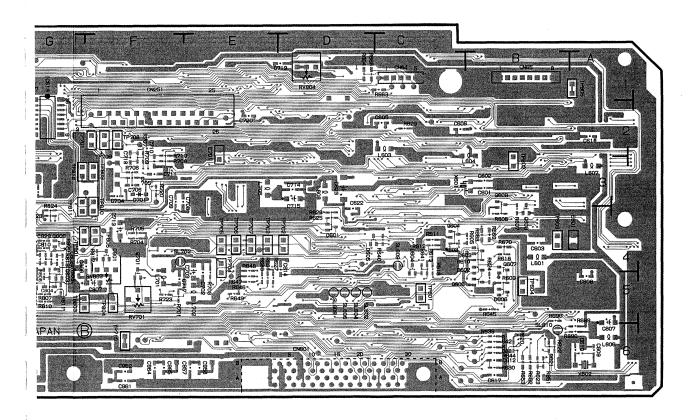
F-3

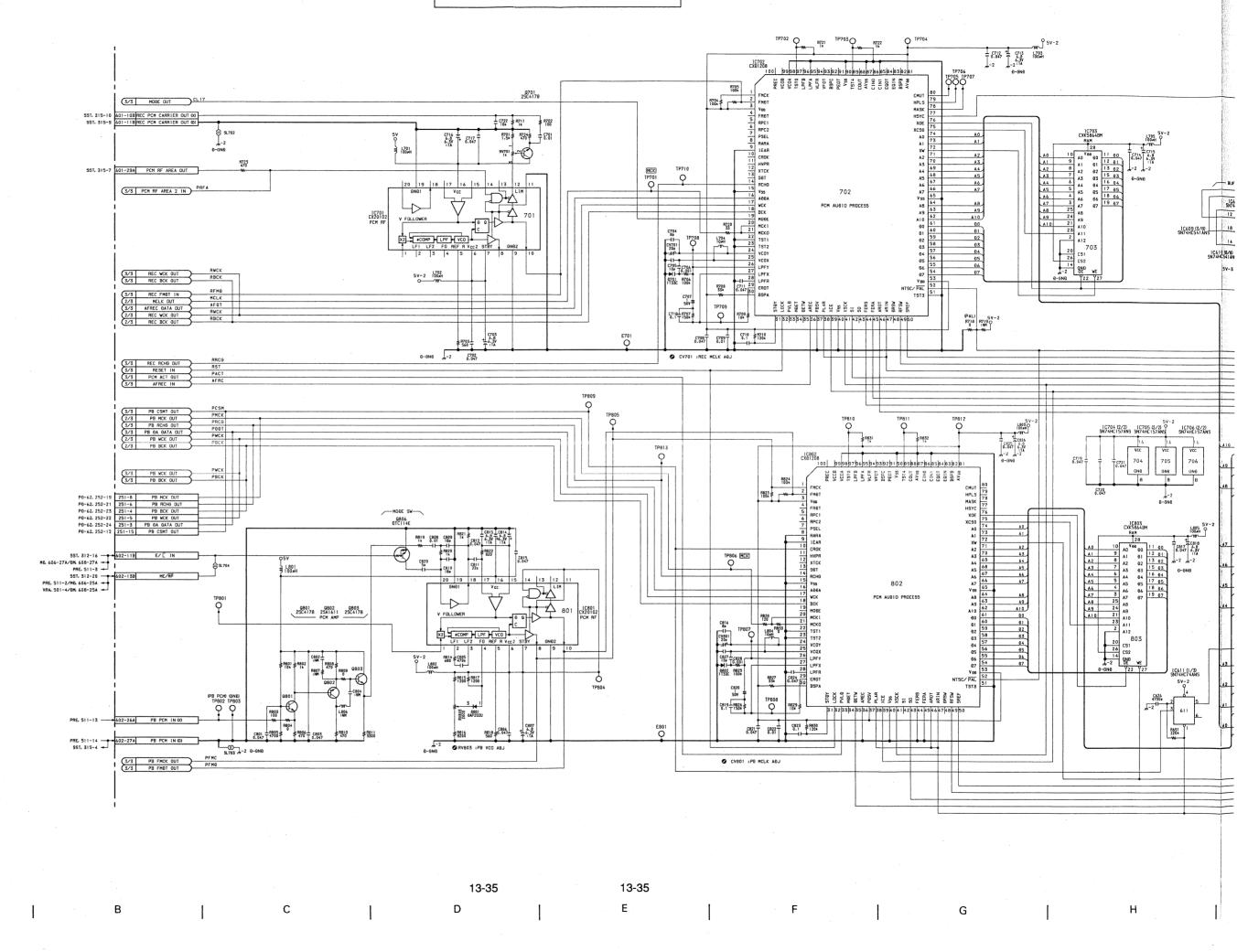
F-3

G-3

AU-157AP

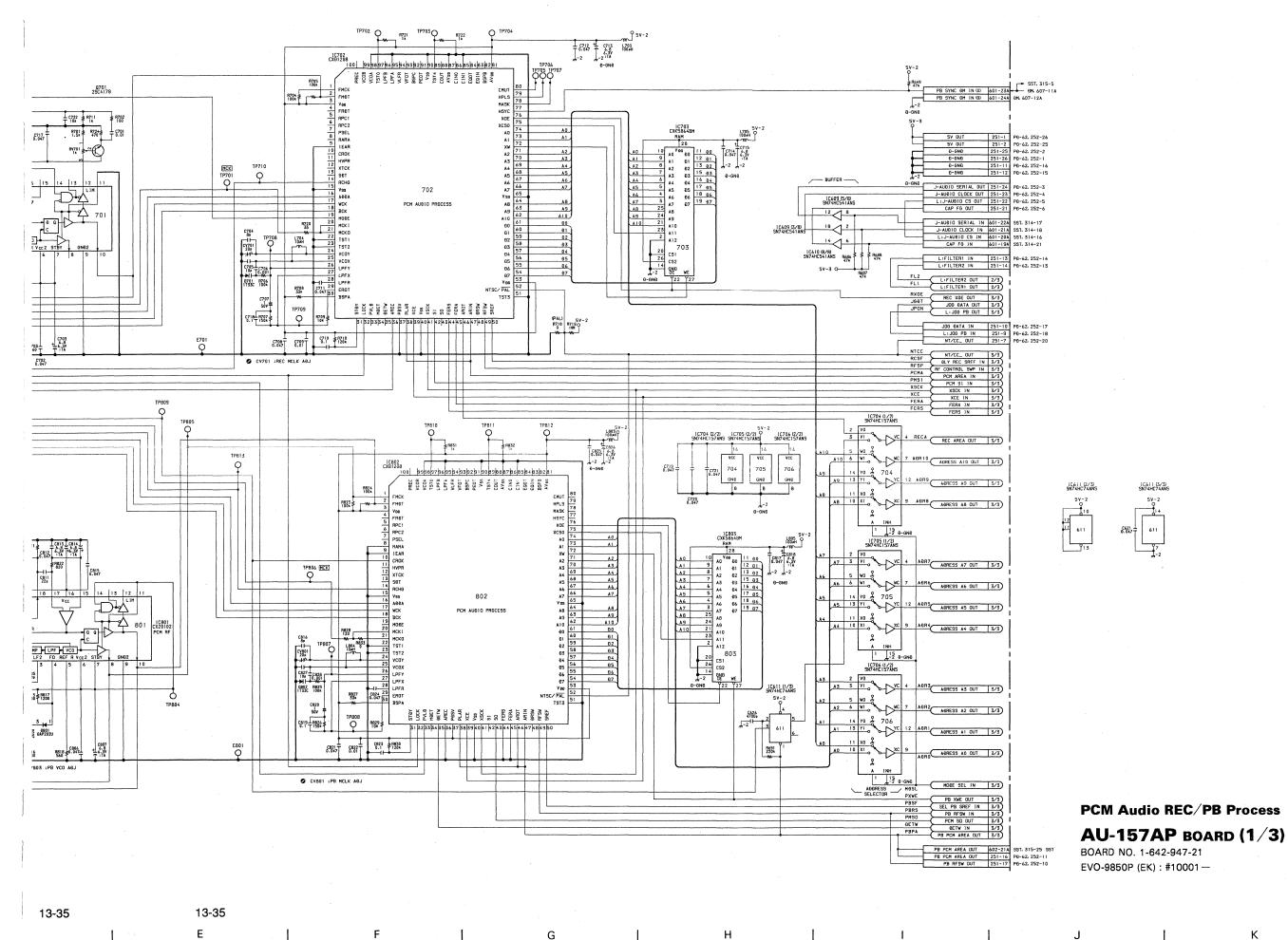






Α



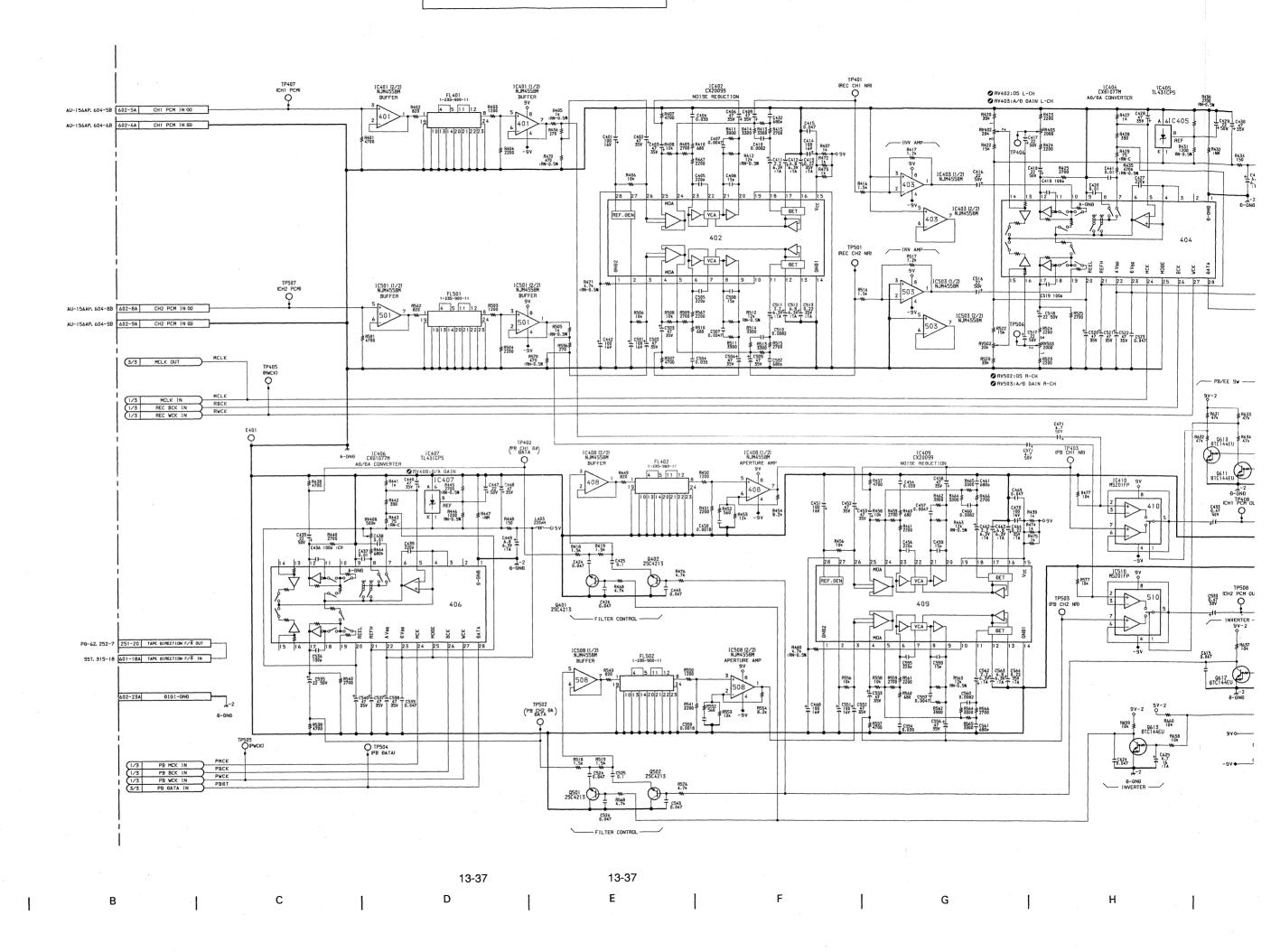


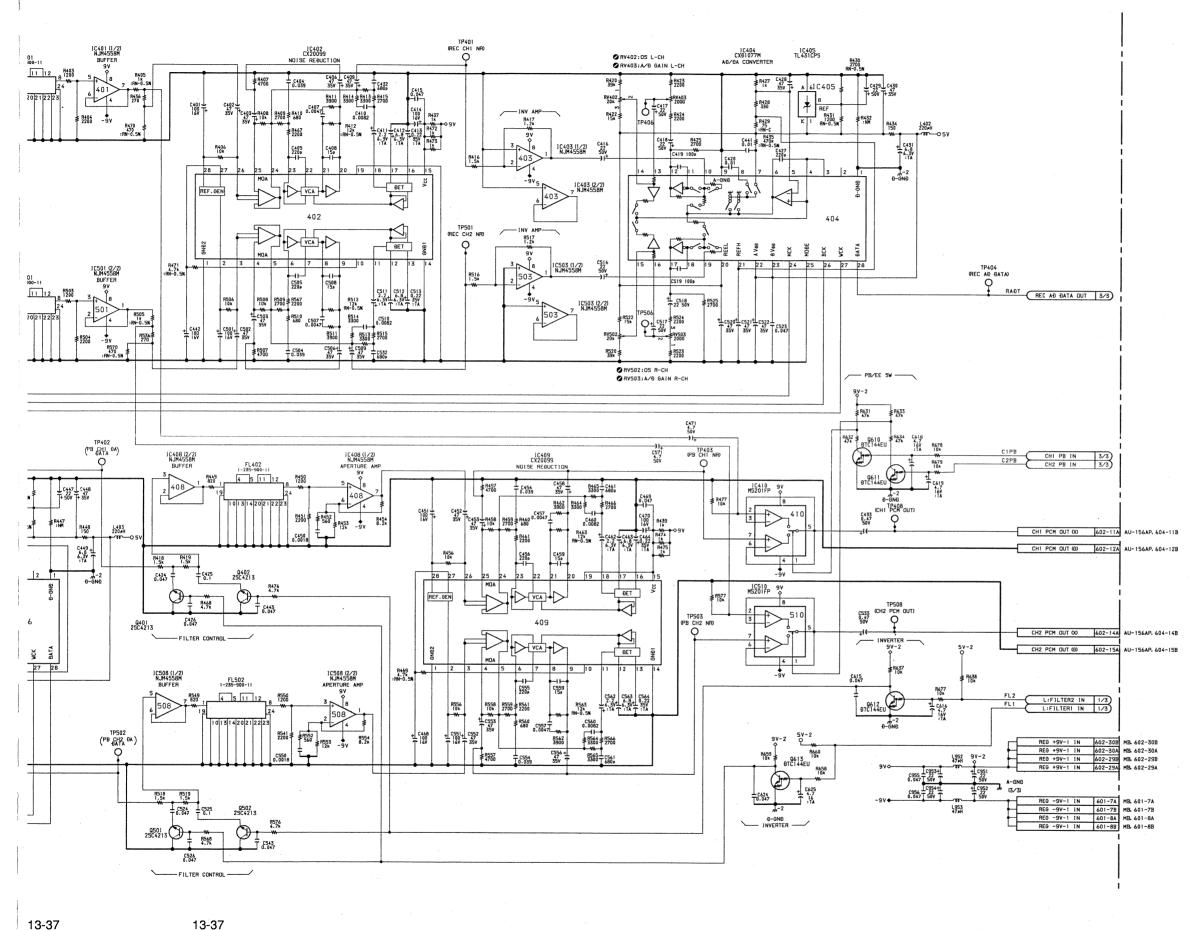
K

13-35

Ε

G





PCM Audio D/A, A/D, NR Process
AU-157AP BOARD (2/3)
BOARD NO. 1-642-947-21

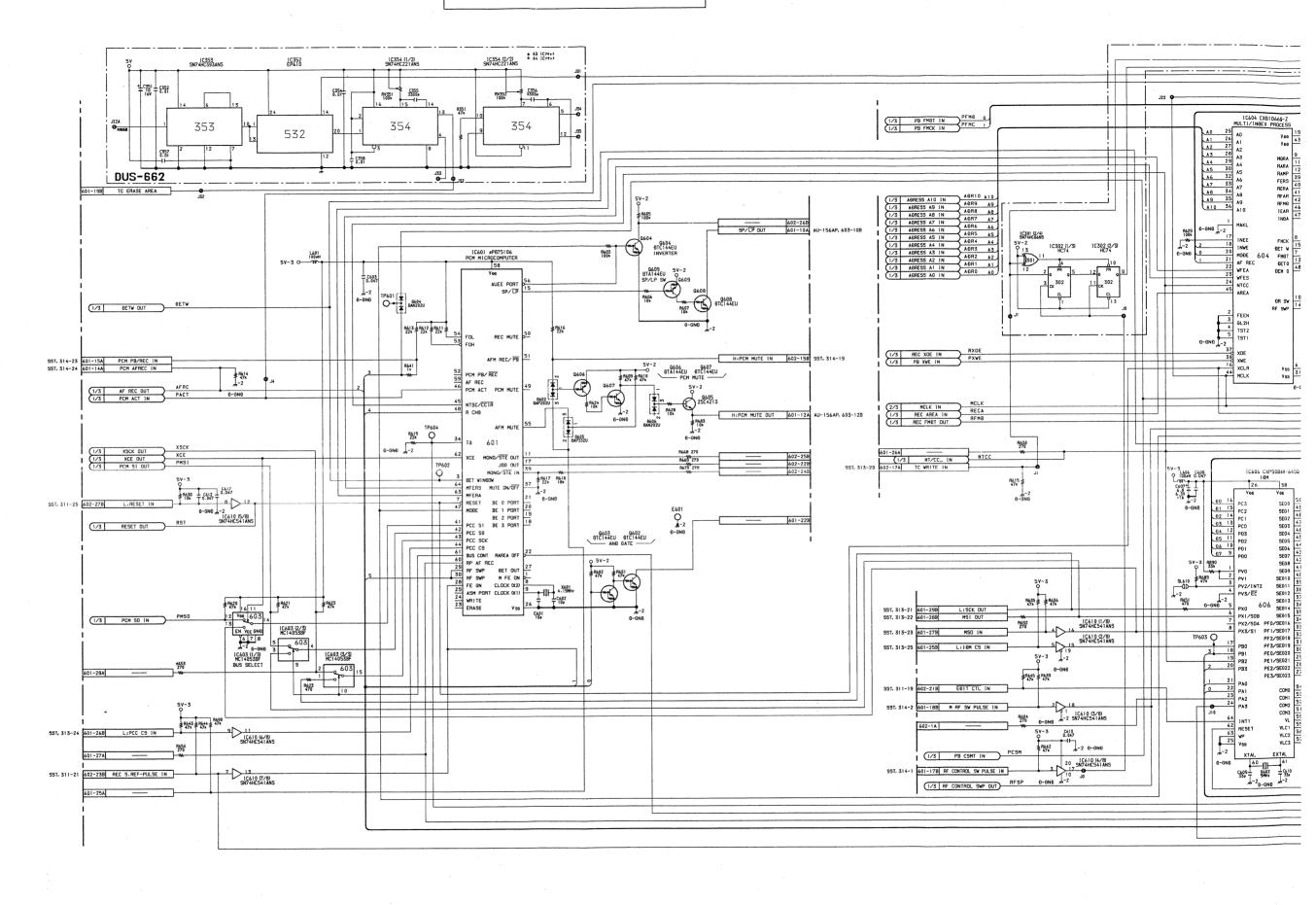
BOARD NO. 1-642-947-21 EVO-9850P (EK): #10001—

9-37 13-37 | E

13-37

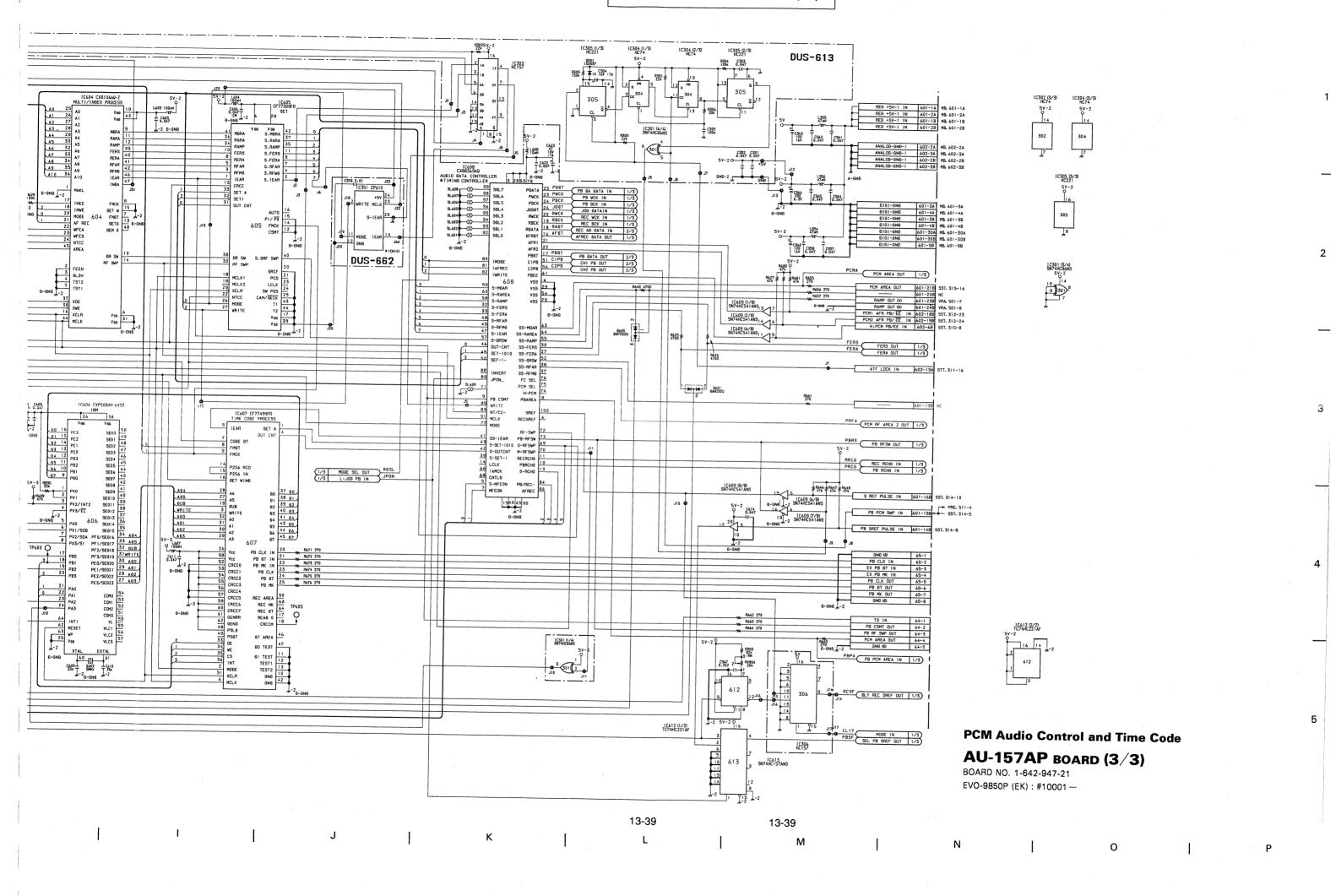
K

L



13-39 13-39

A | B | C | D | E | F | G | H



AA-57P (1-642-959-13)

CN201 CN202 CN203 C-3 CN204 A-3 CN205 E-3 CN206 A-1 CN207 C-1 CN208 C-2 CN209

E-2 CN210 E-3 D101 A-2* D102 A-2* D103 A-2* D104 A-2* D201 C-1* D202 C-1* D203 C-1*

D204 C-1 * D301 E-1 * D302 E-1* D303 E-1* D304 E-1* D401 E-2* D402 F-2* D403 E-2* D404 E-2*

D601 A-3* D701 E-3* D801 C-3 * IC101 IC102 D-1 IC103 A-1 IC201 C-1

B-3 *

D501

IC202 D-1 IC203 C-1 IC301 D-1 IC302 D-1 IC401 D-2 IC601 B-2 IC801 C-2

PS₁

PS2 B-1 Q1 A-2* Q2 A-2* Q51 C-1 Q52 C-1 Q501 C-3 * Q502 B-3*

B-2

Q503 B-2* Q601 A-3 * Q602 A-3* Q603 A-2* Q701 E-3* Q702 D-3 * Q703 D-2 * Q801 D-3* Q802 C-3* C-2* Q803

T501

T601

T701

T801

D-3 *mark; B SIDE mount

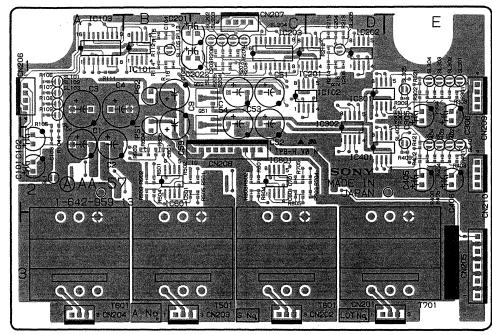
C-3

A-3

E-3

## AA-57P BOARD

#### A Side

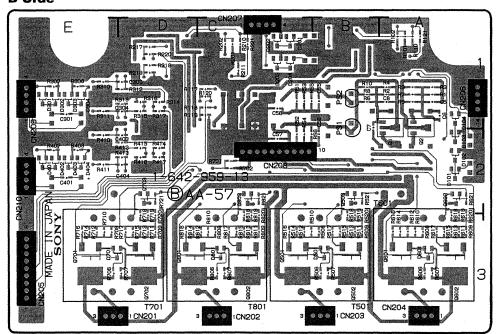


1-642-959-13 A SIDE

A Side is the same as Component Side

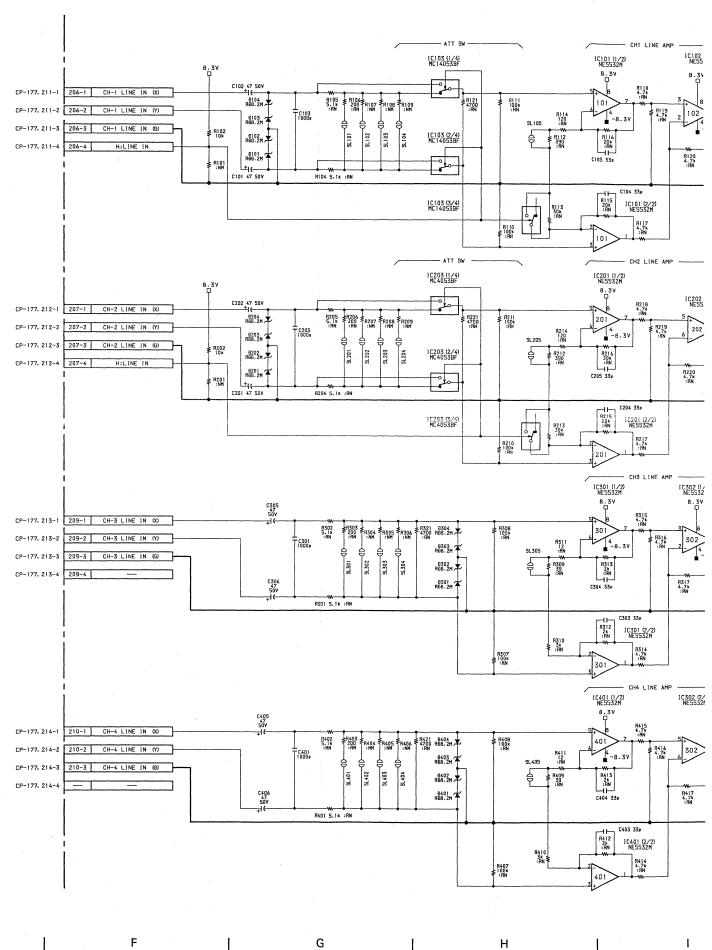
#### AA-57P BOARD

#### **B** Side



1-642-959-13 B SIDE

B Side is the same as Soldering Side

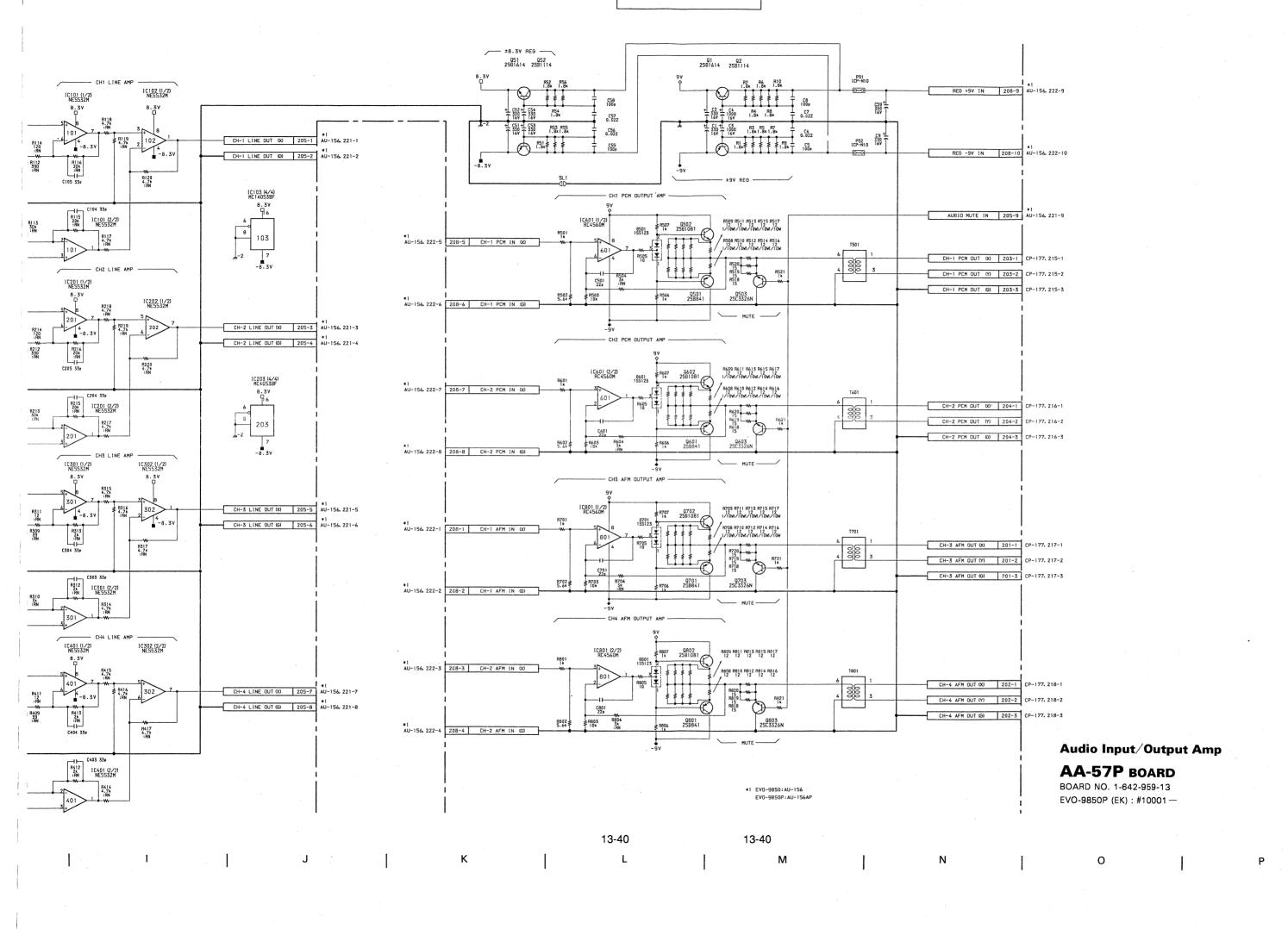


13-40

D

13-40 Ε

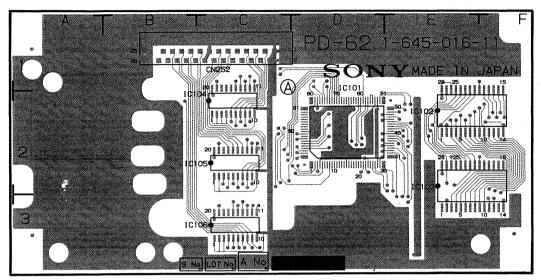
Α



PD-62

## PD-62 BOARD

A Side

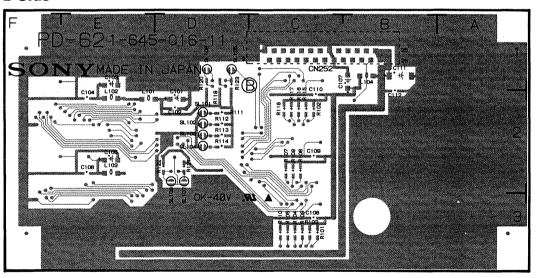


1-645-016-11 A SIDE

A Side is the same as Component Side

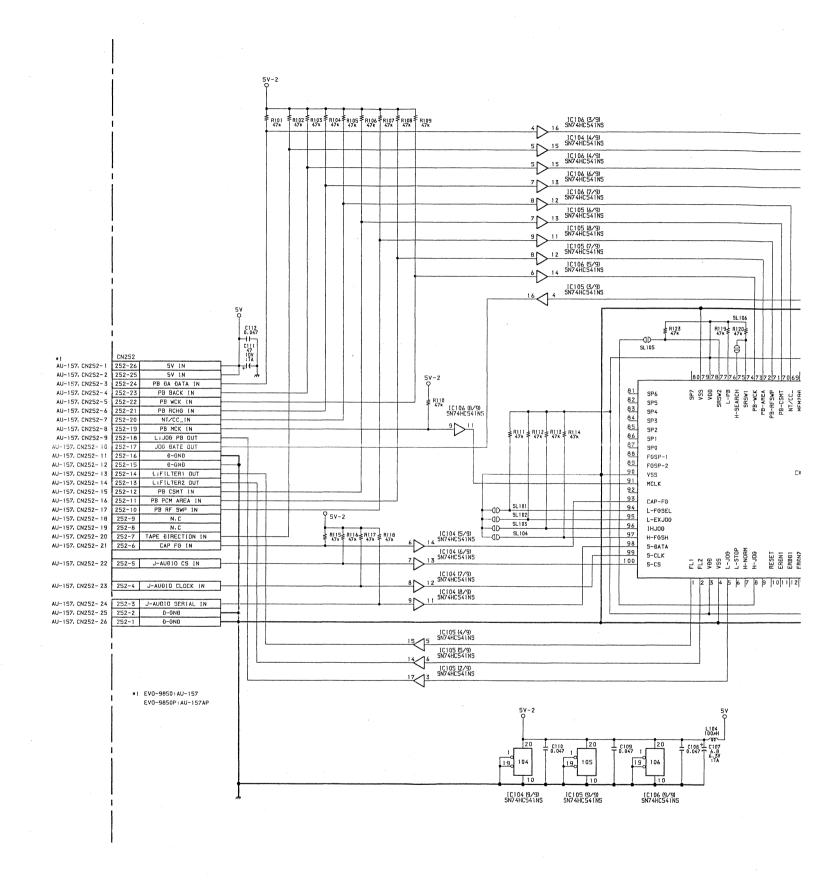
## PD-62 BOARD

**B** Side



1-645-016-11 B SIDE

B Side is the same as Soldering Side



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13-41

Ε

Н

В

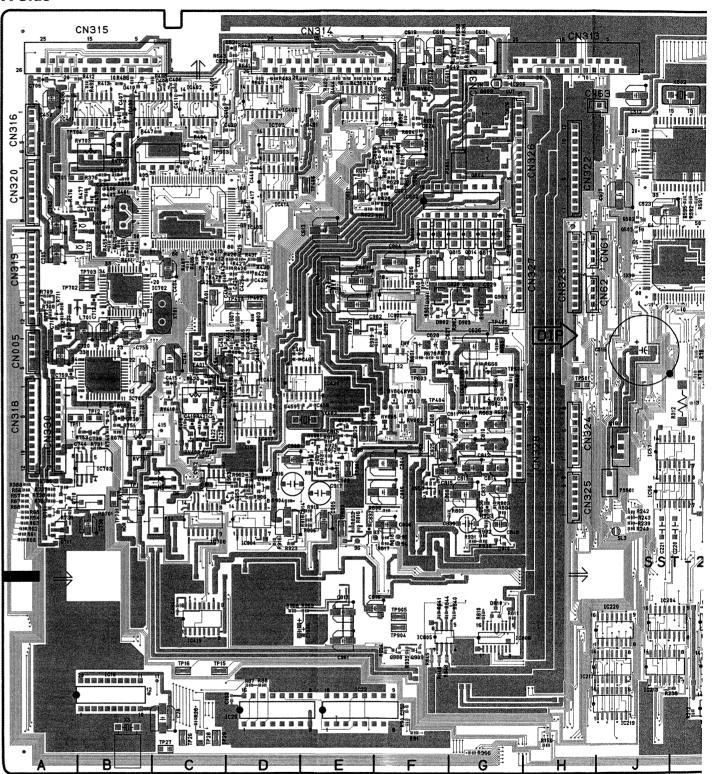
C

D

CN5 CN31 CN51 CN52 CN53 CN54 CN55 CN61 CN62 CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN316 CN318 CN319	A-5 N-3 P-6 N-6 Q-6 R-6 R-6 J-4 H-2 R-3 R-2 P-1 L-1 H-1 E-1 A-2 A-6	D604 D605 D701 D802 D810 D811 D901 D902 D903 D904 D905 D906 D907 D908 D909 D910	F-3* F-2* A-7 G-3* G-9 G-9* D-7 F-5 G-5 E-7* E-6 F-4* G-4* C-7*	IC213 IC214 IC216 IC217 IC219 IC220 IC221 IC401 IC402 IC403 IC404 IC405 IC406 IC408	J-10 K-6 P-10 H-9 J-10 J-9 K-9 C-2* C-2 D-2 B-2*	Q2 Q3 Q4 Q6 Q8 Q15 Q16 Q17 Q18 Q19 Q20	N-4* P-4* P-2* C-2 Q-4* J-6 M-6*	Q904 Q905 Q906 Q907 Q908 Q909 Q950 Q951 Q952	E-6* E-6 D-7* D-8* F-9 F-7 G-8* G-2*	TP703 TP704 TP801 TP802 TP803 TP901 TP902 TP903 TP904	B-4 A-2 * F-6 E-6 E-7 E-7 E-5
CN51 CN52 CN53 CN54 CN55 CN61 CN62 CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN316	P-6 N-6 Q-6 R-6 R-6 J-4 H-2 R-3 R-2 P-1 L-1 E-1 B-1 A-2	D701 D802 D810 D811 D901 D902 D903 D904 D905 D906 D907 D908 D909 D910	A-7 G-3* G-9 G-9* D-7 F-5 G-5 E-7* E-6 F-4* G-4*	IC216 IC217 IC219 IC220 IC221 IC401 IC402 IC403 IC404 IC405 IC406	P-10 H-9 J-10 J-9 K-9 C-2* C-2 D-2 B-2* D-3	Q4 Q6 Q8 Q15 Q16 Q17 Q18 Q19 Q20	P-4* P-2* C-2 Q-4* J-6 M-6* M-5*	Q906 Q907 Q908 Q909 Q950 Q951	D-7* D-8* F-9 F-7 G-8*	TP801 TP802 TP803 TP901 TP902 TP903	F-6 E-6 E-7 E-7 E-5 C-2
CN51 CN52 CN53 CN54 CN55 CN61 CN62 CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN316	P-6 N-6 Q-6 R-6 R-6 J-4 H-2 R-3 R-2 P-1 L-1 E-1 B-1 A-2	D701 D802 D810 D811 D901 D902 D903 D904 D905 D906 D907 D908 D909 D910	A-7 G-3* G-9 G-9* D-7 F-5 G-5 E-7* E-6 F-4* G-4*	IC216 IC217 IC219 IC220 IC221 IC401 IC402 IC403 IC404 IC405 IC406	P-10 H-9 J-10 J-9 K-9 C-2* C-2 D-2 B-2* D-3	Q4 Q6 Q8 Q15 Q16 Q17 Q18 Q19 Q20	P-4* P-2* C-2 Q-4* J-6 M-6* M-5*	Q906 Q907 Q908 Q909 Q950 Q951	D-7* D-8* F-9 F-7 G-8*	TP801 TP802 TP803 TP901 TP902 TP903	F-6 E-6 E-7 E-7 E-5 C-2
CN52 CN53 CN54 CN55 CN61 CN62 CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN316	N-6 Q-6 R-6 R-6 J-4 J-4 H-2 R-3 R-2 L-1 L-1 B-1 A-2	D802 D810 D811 D901 D902 D903 D904 D905 D906 D907 D908 D909 D910	G-3* G-9 G-9* D-7 F-5 G-5 E-7* E-6 F-4* G-4*	IC217 IC219 IC220 IC221 IC401 IC402 IC403 IC404 IC405 IC406	H-9 J-10 J-9 K-9 C-2* C-2 D-2 B-2* D-3	Q6 Q8 Q15 Q16 Q17 Q18 Q19 Q20	P-2* C-2 Q-4* J-6 M-6* M-5*	Q907 Q908 Q909 Q950 Q951	D-8* F-9 F-7 G-8*	TP802 TP803 TP901 TP902 TP903	E-6 E-7 E-7 E-5 C-2
CN53 CN54 CN55 CN61 CN62 CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN316	Q-6 R-6 R-6 J-4 J-4 H-2 R-3 R-2 P-1 L-1 H-1 E-1 B-1 A-2	D810 D811 D901 D902 D903 D904 D905 D906 D907 D908 D909 D910	G-9 G-9* D-7 F-5 G-5 E-7* E-6 F-4* G-4*	IC219 IC220 IC221 IC401 IC402 IC403 IC404 IC405 IC406	J-10 J-9 K-9 C-2* C-2 D-2 B-2*	Q8 Q15 Q16 Q17 Q18 Q19 Q20	C-2 Q-4* J-6 M-6* M-5*	Q908 Q909 Q950 Q951	F-9 F-9 F-7 G-8*	TP803 TP901 TP902 TP903	E-7 E-7 E-5 C-2
CN54 CN55 CN61 CN62 CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN318 CN318	R-6 R-6 J-4 J-4 H-2 R-3 R-2 P-1 L-1 H-1 E-1 B-1 A-2	D811 D901 D902 D903 D904 D905 D906 D907 D908 D909 D910	G-9* D-7 F-5 G-5 E-7* E-6 F-4* G-4* F-4*	IC220 IC221 IC401 IC402 IC403 IC404 IC405 IC406	J-9 K-9 C-2* C-2 D-2 B-2* D-3	Q15 Q16 Q17 Q18 Q19 Q20	Q-4* J-6 M-6* M-5*	Q909 Q950 Q951	F-9 F-7 G-8*	TP901 TP902 TP903	E-7 E-5 C-2
CN55 CN61 CN62 CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN318 CN318	R-6 J-4 J-4 H-2 R-3 R-2 P-1 L-1 H-1 E-1 B-1	D901 D902 D903 D904 D905 D906 D907 D908 D909 D910	D-7 F-5 G-5 E-7* E-6 F-4* G-4*	IC221 IC401 IC402 IC403 IC404 IC405 IC406	K-9 C-2* C-2 D-2 B-2* D-3	Q16 Q17 Q18 Q19 Q20	J-6 M-6 <b>*</b> M-5 <b>*</b>	Q950 Q951	F-7 G-8*	TP902 TP903	E-5 C-2
CN61 CN62 CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN318 CN318	J-4 J-4 H-2 R-3 R-2 P-1 L-1 H-1 E-1 B-1	D902 D903 D904 D905 D906 D907 D908 D909 D910	F-5 G-5 E-7* E-6 F-4* G-4*	IC401 IC402 IC403 IC404 IC405 IC406	C-2* C-2 D-2 B-2* D-3	Q17 Q18 Q19 Q20	M-6 * M-5 *	Q951	G-8*	TP903	C-2
CN62 CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN318 CN318	J-4 H-2 R-3 R-2 P-1 L-1 H-1 E-1 B-1	D903 D904 D905 D906 D907 D908 D909 D910	G-5 E-7* E-6 F-4* G-4*	IC402 IC403 IC404 IC405 IC406	C-2 D-2 B-2* D-3	Q18 Q19 Q20	M-5*				
CN63 CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN316 CN318 CN319	H-2 R-3 R-2 P-1 L-1 H-1 E-1 B-1	D904 D905 D906 D907 D908 D909 D910	E-7* E-6 F-4* G-4* F-4*	IC403 IC404 IC405 IC406	D-2 B-2* D-3	Q19 Q20		Q952	G-2*	[ Duna	
CN307 CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN318 CN318	R-3 R-2 P-1 L-1 H-1 E-1 B-1 A-2	D905 D906 D907 D908 D909 D910	E-6 F-4* G-4* F-4*	IC404 IC405 IC406	B-2 * D-3	Q20					F-9
CN309 CN311 CN312 CN313 CN314 CN315 CN316 CN318 CN318	R-2 P-1 L-1 H-1 E-1 B-1 A-2	D906 D907 D908 D909 D910	F-4* G-4* F-4*	IC405 IC406	D-3		L-5*	Q953	G-4*	TP905	F-9
CN311 CN312 CN313 CN314 CN315 CN316 CN318 CN319	P-1 L-1 H-1 E-1 B-1 A-2	D907 D908 D909 D910	G-4* F-4*	IC406		001	L-5*	Q954	G-4*		
CN312 CN313 CN314 CN315 CN316 CN318 CN319	L-1 H-1 E-1 B-1 A-2	D908 D909 D910	F-4*		C 44	Q21	P-1	Q955	C-8 *	X1	R-7
CN313 CN314 CN315 CN316 CN318 CN319	H-1 E-1 B-1 A-2	D909 D910		IC408	C-4*	Q201	K-8*	Q956	E-9*	X2	R-4
CN314 CN315 CN316 CN318 CN319	E-1 B-1 A-2	D910	C-7*	10400	B-2	Q202	K-8*	Q957	E-8*	Х3	B-10
CN315 CN316 CN318 CN319	B-1 A-2			IC409	B-3 *	Q203	M-6 *	Q958	J-6*	X201	N-9
CN316 CN318 CN319	A-2	D4004	G-8	IC410	D-4*	Q204	M-6 *			X401	B-3
CN316 CN318 CN319	A-2	D1001	Q-9*	IC411	A-2	Q205	K-10*	RV2	N-2	X402	E-6
CN318 CN319		D1002	Q-9*	IC412	D-3 *	Q401	B-3	RV401	C-6	X501	L-4
CN319		D1501	K-3	IC414	D-3	Q402	D-3*	RV402	D-6	X502	K-1
	A-6 A-4	51001	11-0	IC414	D-3 *	Q402 Q403	D-5 *	RV402			
CNIDOO		E+	MO						C-6	. X701	C-5
CN320	A-3	E1	M-8	IC416	D-5	Q404	D-6*	RV404	C-6		B 0/B5
CN321	G-2	E2	Q-1	IC417	D-6	Q501	L-3*	RV410	C-6	* mark ;	B SIDE mount
CN322	H-3	E3	R-2	IC418	E-6*	Q502	J-3	RV601	F-2		
CN323	H-4	E401	C-5	IC419	C-9	Q503	J-3	RV602	F-2		
CN324	H-6	E501	K-2	IC420	E-6	Q504	K-4*	RV603	F-5		
CN325	H-7	E601	G-1	IC421	L-7	Q505	K-4*	RV701	B-7		
CN326	H-3	E701	A-3	IC501	M-2	Q506	J-4*	RV702	B-3		
CN327	H-4			IC502	K-2	Q507	J-4*	RV703	A-2		
CN328	H-7	IC1	R-5	IC503	L-4	Q509	J-5*	RV802	F-6		
CN329	R-1	IC2	N-5	IC504	M-2*	Q510	J-6*	RV803	F-6		
CN330	A-6	IC3	R-6	IC601	F-3*	Q511	J-2*	RV804	F-6		
014000	71.0	IC4	Q-3	IC602	F-2	Q512	K-3*	RV805	F-6		
COP1	N-5	IC5	Q-6	IC603	C-4*	Q512	J-3*	RV901	E-6		
COFI	14-5										
0004		IC6	N-6	IC604	G-1*	Q514	J-3*	RV1001	R-10		
COR1	N-5	IC8	M-4	IC605	C-1*	Q602	F-3*				
		IC9	N-7	IC606	F-2*	Q603	F-3*	S1	N-5		
CV100	P-3	IC10	P-3	IC607	G-6	Q604	F-3*	S2	F-5		
		IC11	Q-7	IC701	B-2*	Q605	E-3*	S3	B-7		
D1	M-4	IC13	K-7	IC702	C-4	Q706	A-4*	S401	C-2		
D2	N-4 *	IC14	R-9	IC703	B-7	Q707	A-5*				
D3	M-4 *	IC15	P-4	IC704	A-2*	Q708	B-5*	TP1	B-7		
D5	C-7	IC16	B-9	IC705	B-6	Q709	A-5*	TP2	P-8		
D6	C-7	IC17	N-3	IC706	C-8	Q710	A-7	TP3	P-8		
D7	M-6 *	IC18	N-5	IC707	D-2	Q711	A-8	TP11	A-6		
D10	L-6*	IC19	N-4	IC801	G-6*	Q712	B-5*	TP12	B-6		
D11	L-5*	IC21	P-8	IC802	F-3	Q713	B-6*	TP15	C-9		
D12	M-2 *	IC22	E-10	IC803	F-8*	Q714	B-6*	TP16	C-9		
D13	J-7*	IC23	C-10	IC804	G-7*	Q715	B-6*	TP18	N-5		
D203	N-3 *	IC51	L-5	IC805	F-9	Q716	B-6*	TP19	M-6		
D204	N-9 *	IC52	Q-2	IC806	G-9	Q717	A-6*	TP20	M-6		
D206	K-6 *	IC53	P-2	IC809	G-7*	Q718	A-6*	TP26	C-10		
D207	N-10*	IC54	Q-8	IC901	F-5	Q719	B-6*	TP27	C-10		
D401	C-5 *	IC56	J-7	IC902	D-8*	Q802	G-2*	TP28	C-10		
D402	D-6 *	IC57	J-7	IC903	D-7 *	Q803	G-2	TP29	D-10		
D403	C-6*	IC100	R-3	IC904	D-8	Q804	G-3	TP30	P-2		
D404	C-5*	IC101	P-2	IC905	C-7	Q809	F-8*	TP201	P-9		
D405	C-6*	IC102	M-7	IC906	G-1	Q810	G-9*	TP401	C-4		
D406	C-6*	IC103	L-6	IC1001	Q-10	Q811	G-9*	TP402	D-4		
D407	C-6*	IC104	M-7	IC1002	Q-10	Q812	E-5*	TP403	D-4		
D408	C-6*	IC105	P-2	IC1002	R-10	Q813	F-5	TP404	F-6		
D400	B-2	IC201	P-10			Q814	G-4	TP405	G-5		
				DQ1	0.1						
D411	C-9 *	IC202	N-9	PS1	Q-1	Q815	G-4	TP406	E-3		
D502	K-2 *	IC203	N-7	PS2	C-7	Q816	G-4	TP501	H-5		
D503	J-3*	IC204	J-8	PS3	Q-2	Q817	G-4	TP601	F-1		
D504	J-4*	IC208	N-9	PS501	J-7	Q818	F-4	TP602	F-1		
D505	J-5*	IC209	L-9	PS701	B-7	Q819	F-3	TP603	F-5		
D506	K-4*	IC210	L-9	PS801	G-3	Q901	F-4	TP604	G-5		
D602	E-3 *	IC211	K-8			Q902	G-4	TP701	B-7		
D603	E-3 *	IC212	K-10	Q1	P-4*	Q903	G-4	TP702	A-4		

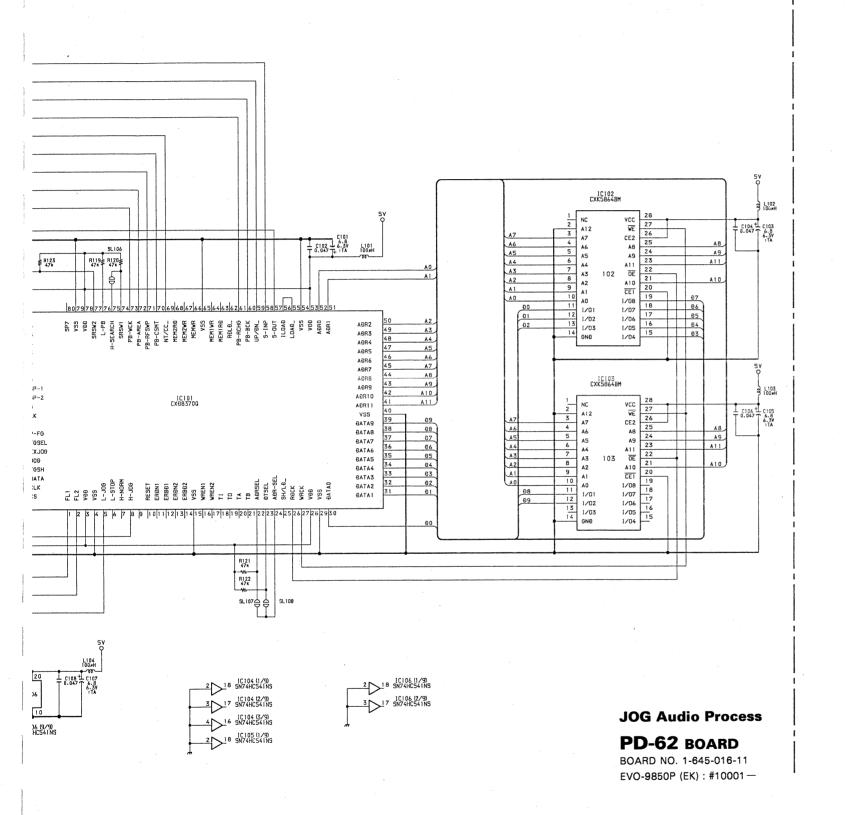
# SST-2AP BOARD

A Side



1-642-951-21 A SIDE

A Side is the same as Component Side

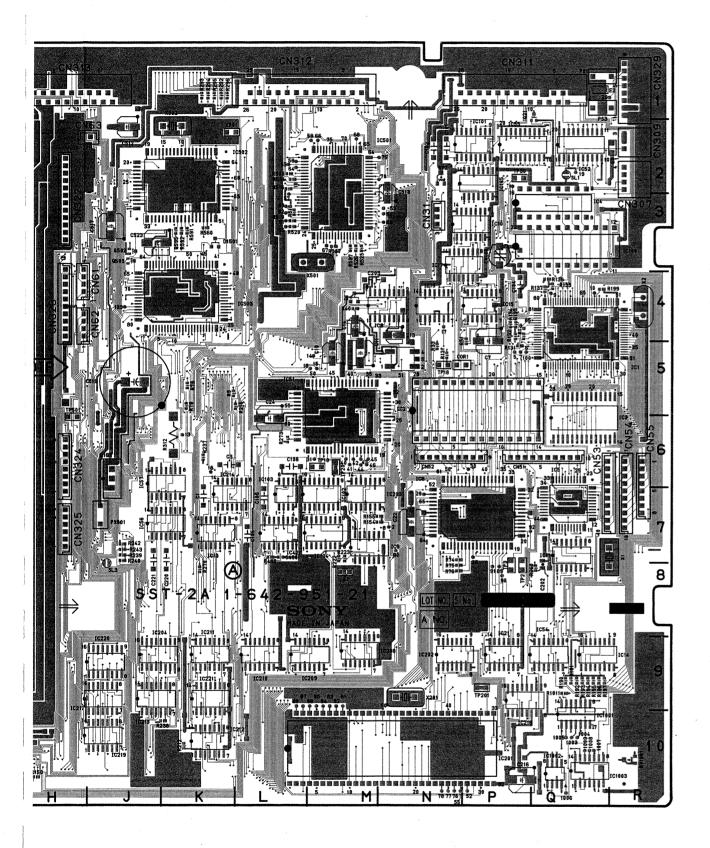


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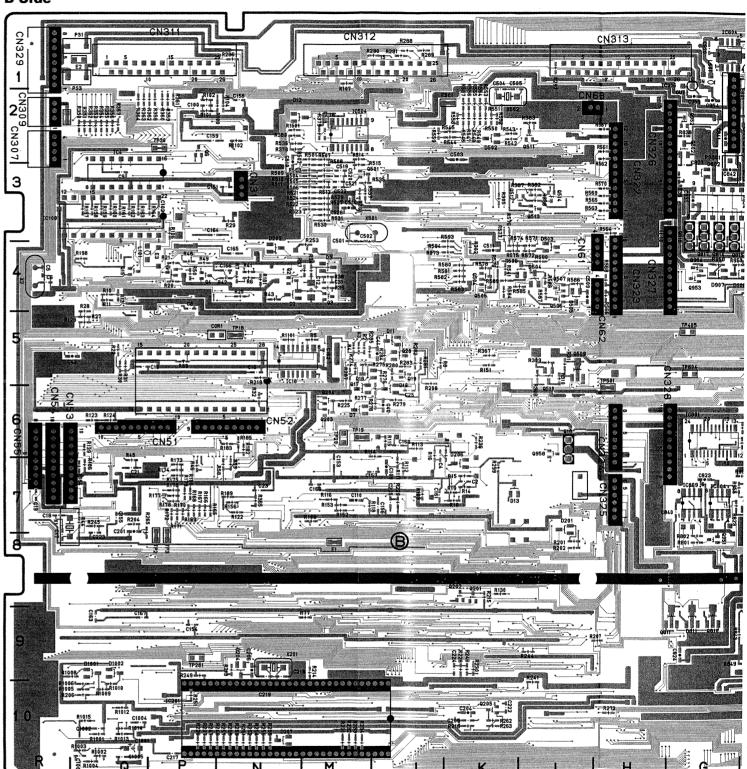


SST-2AP

SST-2AP (1-642-951-21)											
CN5	A-5	D604	F-3*	IC213	J-10	Q2	N-4*	Q904	E-6*	TP703	B-4
CN31	N-3	D605	F-2*	IC214	K-6	Q3	M-4*	Q905	E-6	TP704	A-2*
CN51	P-6	D701	A-7	IC216	P-10	Q4	P-4*	Q906	D-7*	TP801	F-6
CN52	N-6	D802	G-3*	IC217	H-9	Q6	P-2*	Q907	D-8*	TP802	E-6
CN53	Q-6	D810	G-9	IC219	J-10	Q8	C-2	Q908	F-9	TP803	E-7
CN54	R-6	D811	G-9*	IC220	J-9	Q15	Q-4*	Q909	F-9	TP901	E-7
CN55	R-6	D901	D-7	IC221	K-9	Q16	J-6	Q950	F-7	TP902	E-5
CN61	J-4	D902	F-5	IC401	C-2*	Q17	M-6*	Q951	G-8*	TP903	C-2
CN62	J-4	D903	G-5	IC402	C-2	Q18	M-5*	Q952	G-2*	TP904	F-9
CN63	H-2	D904	E-7*	IC403	D-2	Q19	L-5*	Q953	G-4*	TP905	F-9
CN307	R-3	D905	E-6	IC404	B-2*	Q20	L-5*	Q954	G-4*		
CN309	R-2	D906	F-4*	IC405	D-3	Q21	P-1	Q955	C-8*	X1	R-7
CN311	P-1	D907	G-4*	IC406	C-4*	Q201	K-8*	Q956	E-9*	X2	R-4
CN312	L-1	D908	F-4*	IC408	B-2	Q202	K-8*	Q957	E-8*	X3	B-10
CN313	H-1	D909	C-7*	IC409	B-3*	Q203	M-6*	Q958	J-6*	X201	N-9
CN314	E-1	D910	G-8	IC410	D-4*	Q204	M-6*	DVO	N O	X401	B-3
CN315	B-1	D1001	Q-9*	IC411	A-2 D-3*	Q205 Q401	K-10 <b>∗</b> B-3	RV2 RV401	N-2 C-6	X402 X501	E-6 L-4
CN316	A-2	D1002	Q-9*	IC412 IC414	D-3 <b>∓</b> D-3	Q401	D-3 *	RV401	D-6	X501 X502	K-1
CN318 CN319	A-6 A-4	D1501	K-3	IC414	D-3 *	Q402 Q403	D-5 *	RV402	C-6	X701	C-5
CN319	A-4 A-3	E1	M-8	IC416	D-5	Q403 Q404	D-6*	RV404	C-6		0-3
CN321	G-2	E2	Q-1	IC417	D-6	Q501	L-3*	RV410	C-6	* mark :	B SIDE mount
CN322	H-3	E3	R-2	IC418	E-6*	Q502	J-3	RV601	F-2	, ,,,	
CN323	H-4	E401	C-5	IC419	C-9	Q503	J-3	RV602	F-2		
CN324	H-6	E501	K-2	IC420	E-6	Q504	K-4*	RV603	F-5		
CN325	H-7	E601	G-1	IC421	L-7	Q505	K-4*	RV701	B-7		
CN326	H-3	E701	A-3	IC501	M-2	Q506	J-4*	RV702	B-3		
CN327	H-4			IC502	K-2	Q507	J-4*	RV703	A-2		
CN328	H-7	IC1	R-5	IC503	L-4	Q509	J-5*	RV802	F-6		
CN329	R-1	IC2	N-5	IC504	M-2*	Q510	J-6*	RV803	F-6		
CN330	A-6	IC3	R-6	IC601	F-3*	Q511	J-2*	RV804	F-6		
		IC4	Q-3	IC602	F-2	Q512	K-3 *	RV805	F-6		
COP1	N-5	IC5	Q-6	IC603	C-4*	Q513	J-3*	RV901	E-6		
		IC6	N-6	IC604	G-1*	Q514	J-3*	RV1001	R-10		
COR1	N-5	IC8	M-4	IC605	C-1*	Q602	F-3*	0.1	N. F		
01/400	Б.	IC9	N-7 P-3	IC606 IC607	F-2 * G-6	Q603 Q604	F-3* F-3*	S1 S2	N-5 F-5		
CV100	P-3	IC10 IC11	Q-7	IC701	B-2*	Q605	E-3*	S3	B-7		
D1	M-4	IC13	K-7	IC702	C-4	Q706	A-4*	S401	C-2		
D2	N-4*	IC14	R-9	IC703	B-7	Q707	A-5*				
D3	M-4*	IC15	P-4	IC704	A-2*	Q708	B-5*	TP1	B-7		
D5	C-7	IC16	B-9	IC705	B-6	Q709	A-5*	TP2	P-8		
D6	C-7	IC17	N-3	IC706	C-8	Q710	A-7	TP3	P-8		
D7	M-6*	IC18	N-5	IC707	D-2	Q711	A-8	TP11	A-6		
D10	L-6*	IC19	N-4	IC801	G-6*	Q712	B-5*	TP12	B-6		
D11	L-5*	IC21	P-8	IC802	F-3	Q713	B-6*	TP15	C-9		
D12	M-2*	IC22	E-10	IC803	F-8*	Q714	B-6*	TP16	C-9		
D13	J-7*	IC23	C-10	IC804	G-7*	Q715	B-6*	TP18 TP19	N-5		
D203	N-3*	IC51	L-5	IC805 IC806	F-9 G-9	Q716 Q717	B-6* A-6*	TP20	M-6 M-6		
D204	N-9* K-6*	IC52 IC53	Q-2 P-2	IC809	G-7*	Q717	A-6 *	TP26	C-10		
D206 D207	N-10 <b>*</b>	IC53	Q-8	IC901	G-7 ∓ F-5	Q719	B-6*	TP27	C-10		
D401	C-5*	IC56	J-7	IC902	D-8*	Q802	G-2*	TP28	C-10		
D401	D-6*	IC57	J-7	IC903	D-7*	Q803	G-2	TP29	D-10		
D403	C-6*	IC100	R-3	IC904	D-8	Q804	G-3	TP30	P-2		
D404	C-5*	IC101	P-2	IC905	C-7	Q809	F-8*	TP201	P-9		
D405	C-6*	IC102	M-7	IC906	G-1	Q810	G-9*	TP401	C-4		
D406	C-6*	IC103	L-6	IC1001	Q-10	Q811	G-9*	TP402	D-4		
D407	C-6*	IC104	M-7	IC1002	Q-10	Q812	E-5*	TP403	D-4		
D408	C-6*	IC105	P-2	IC1003	R-10	Q813	F-5	TP404	F-6		
D410	B-2	IC201	P-10		_	Q814	G-4	TP405	G-5		
D411	C-9*	IC202	N-9	PS1	Q-1	Q815	G-4	TP406	E-3		
D502	K-2*	IC203	N-7	PS2	C-7	Q816	G-4	TP501	H-5		
D503	J-3*	IC204	J-8	PS3	Q-2	Q817	G-4	TP601	F-1		
D504	J-4*	IC208	N-9	PS501	J-7	Q818	F-4	TP602	F-1		
D505	J-5*	IC209	L-9	PS701	B-7	Q819 Q901	F-3 F-4	TP603 TP604	F-5 G-5		
D506 D602	K-4* E-3*	IC210 IC211	L-9 K-8	PS801	G-3	Q901 Q902	G-4	TP701	G-5 B-7		
D602	E-3*	IC211	K-10	Q1	P-4*	Q903	G-4	TP702	A-4		
2000											

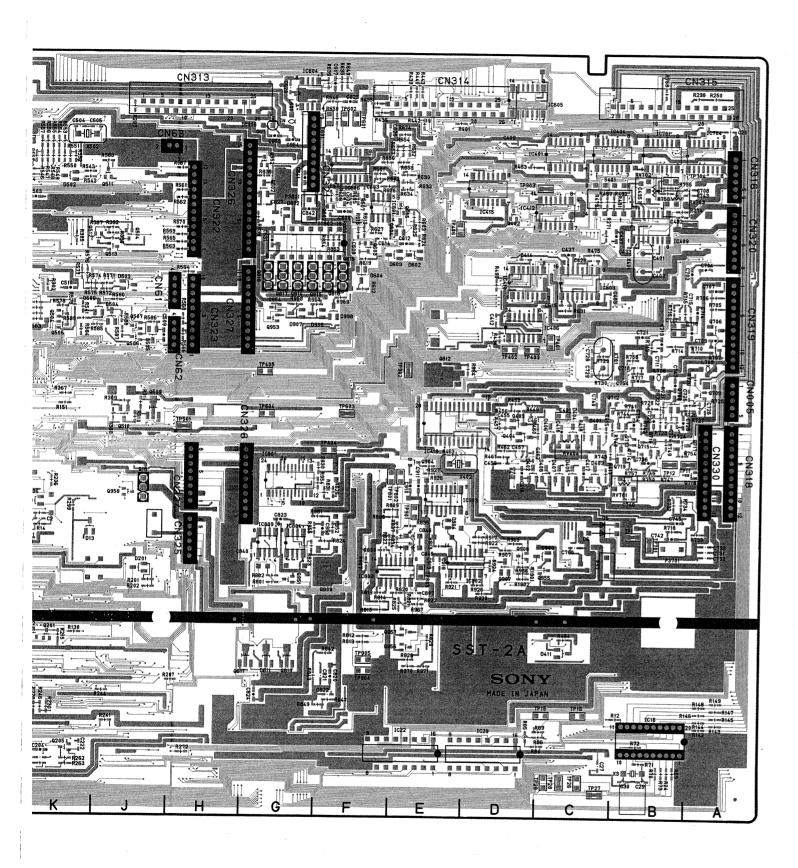
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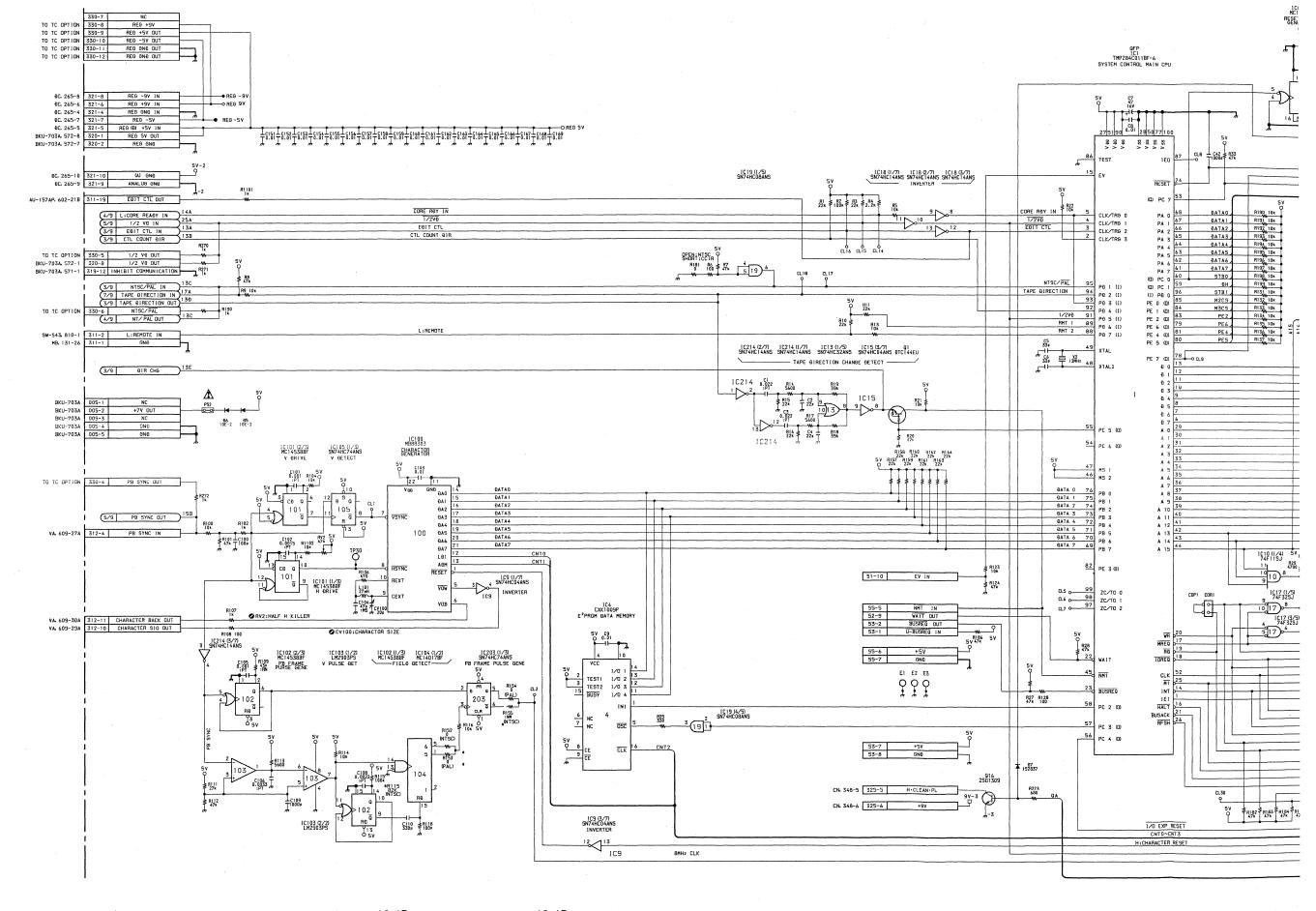
**B** Side



1-642-951-21 B SIDE

B Side is the same as Soldering Side





D

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С

В

E

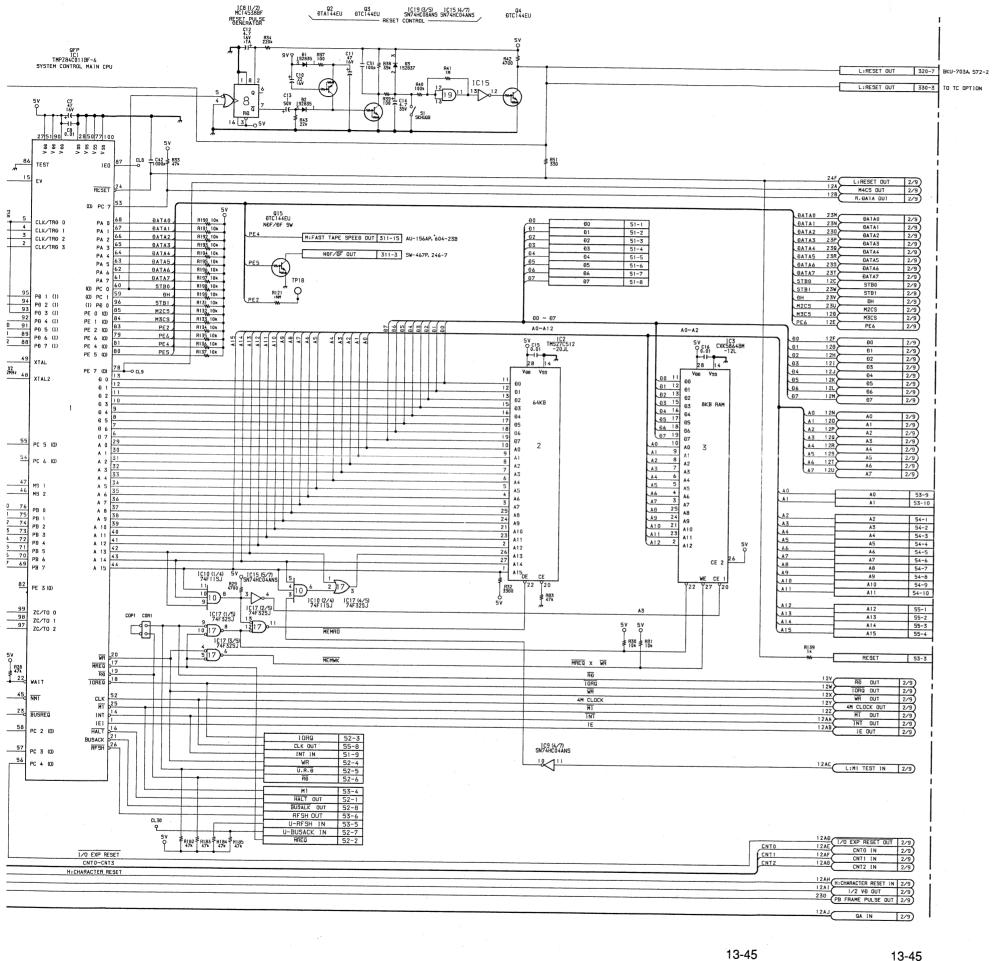
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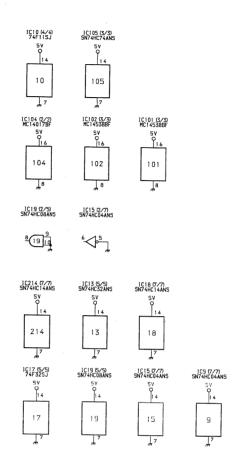
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**Main System Control** 

**SST-2AP** BOARD (1/9)

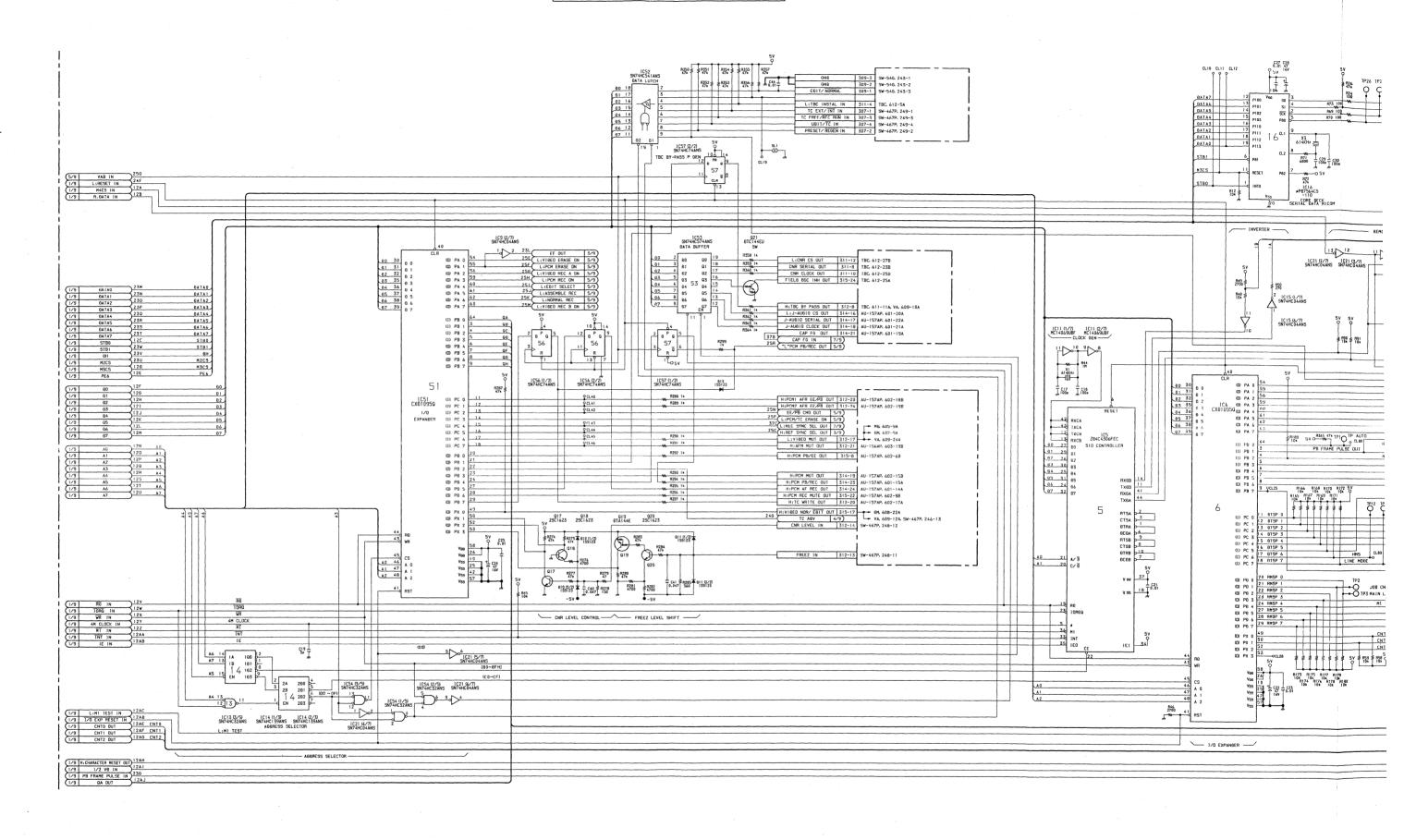
BOARD NO. 1-642-951-21 EVO-9850P (EK): #10001 --

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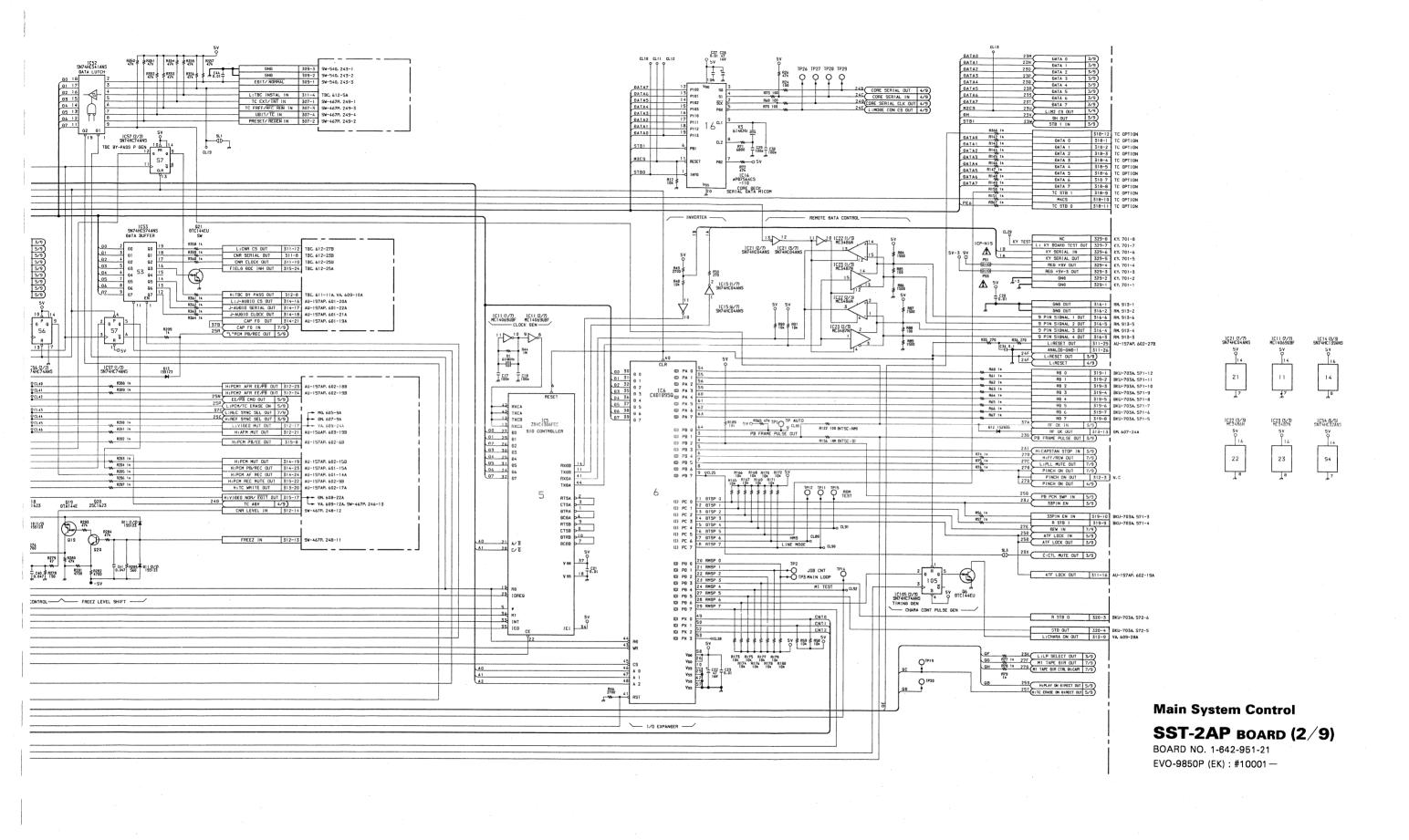
13-45

0



13-47 13-47

A | B | C | D | E | G | H



3-47

13-47

Ε

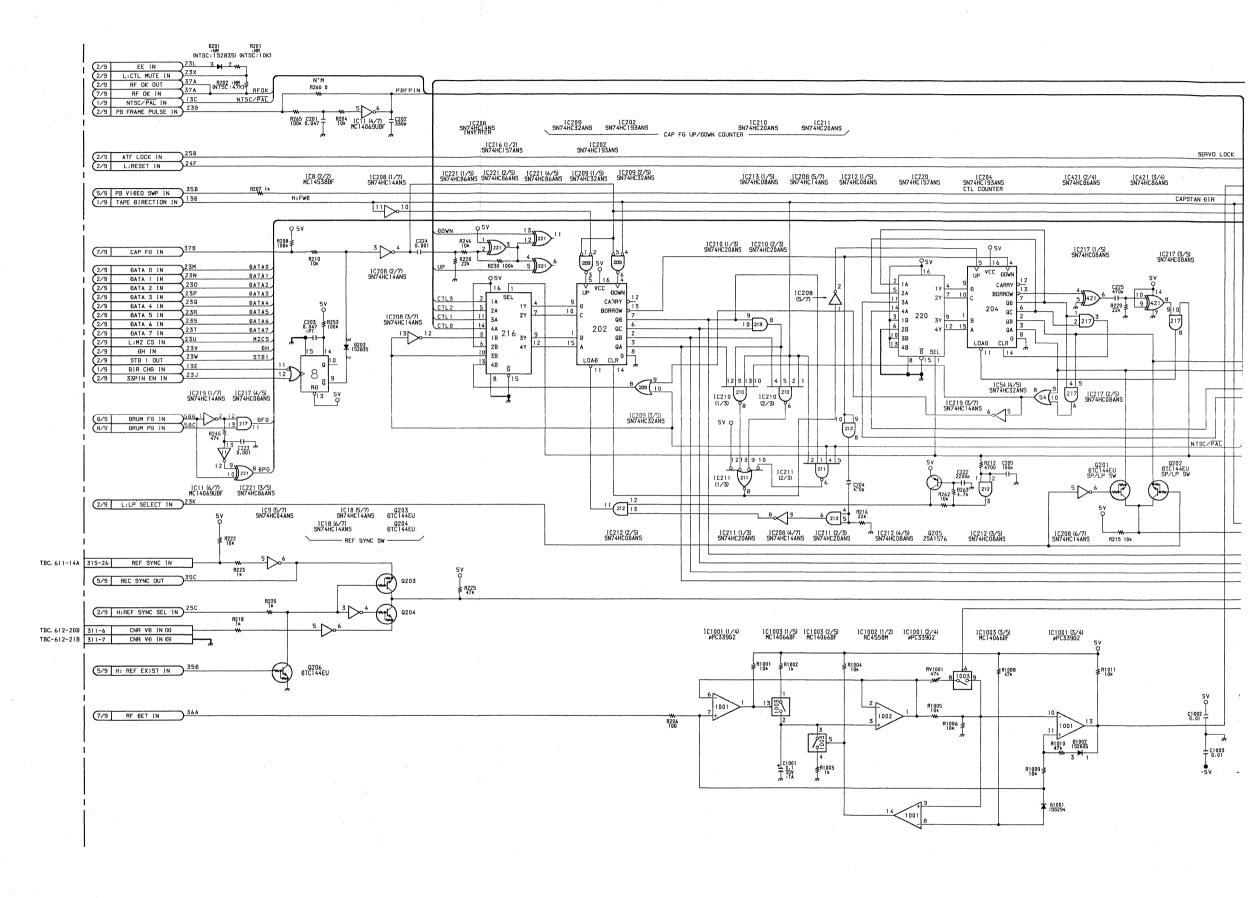
G

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1

K

13-47



13-49

13-49

| B

С

D

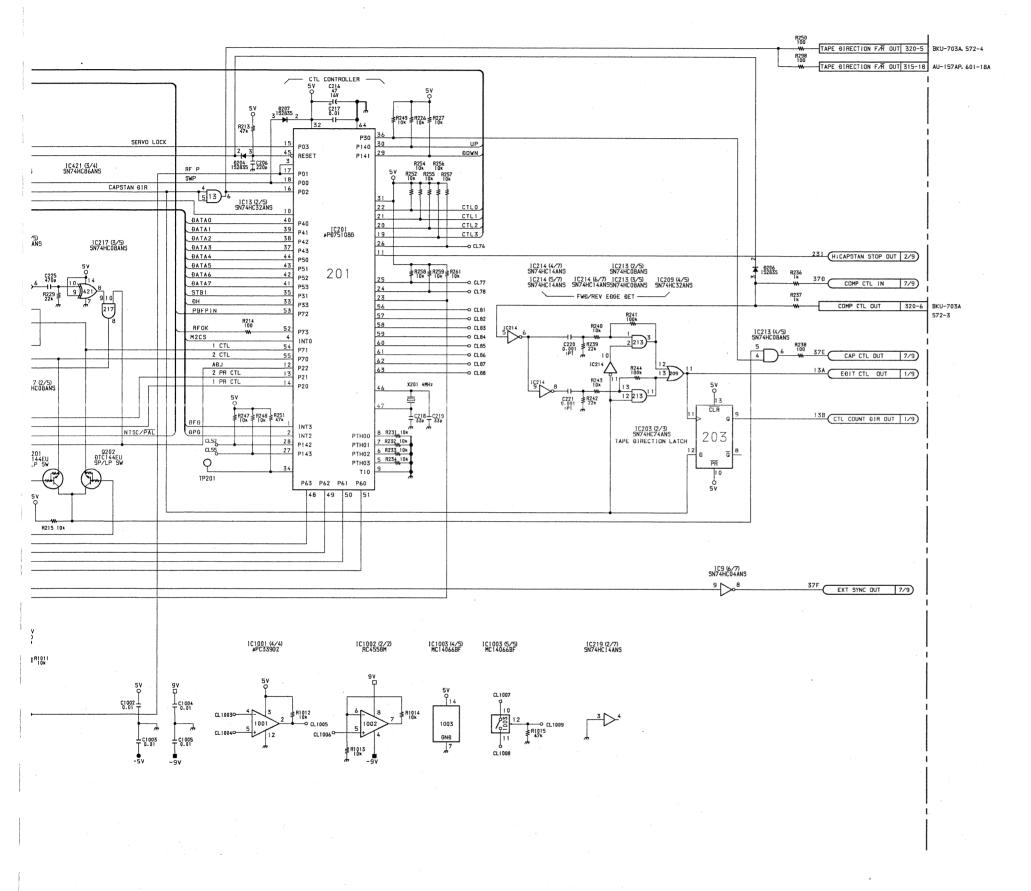
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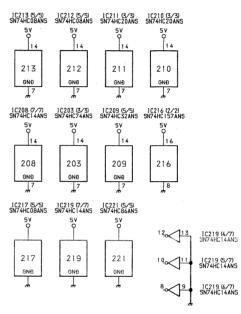
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SST-2AP (3/9)





**CTL Count Conpensator** 

**SST-2AP** BOARD (3/9)

BOARD NO. 1-642-951-21 EVO-9850P (EK): #10001 --

13-49 13-49

REEL SERVO CONTROLLOR -13-51 13-51 Α В С D Ε F G Н

----- PB SYNC TIMING CONT -

1C504 (1/3) TC74HC123AF

R379 C518 47k 3300p

1C504 (2/3) TC74HC123AF

1C504 (3/3) TC74HC123AF

31-1 FUNCTION KEY 1 31-2 FUNCTION KEY 2

2/9 TC AÐV

312-12 L:ĐUB SELECT IN

20 H:E ĐET IN
10 HG SW IN
5/9 VĐ INT IN
5/9 L:RESET OUT
2/9 L:RESET IN

L:NOR PCM OUT CK OUT (X)

GNÐ

MSI IN

T-REEL FG2 IN REC PROOF IN

GNÐ-3

323-9 L:MP/H:ME IN (6/9 L:MP/H:ME OUT )-

5/9 1/2 VĐ

5/9 DUB SELECT OUT 45N

FOR TOOL

ĐM, 607-11A -

AU-157AP, 601-23A

SW-467P. 246-11 ---

MB. 606-27A. DM. 608-27A 312-16
PRE. 511-3. AU-157AP. 602-11B

ĐM. 607-21B 315-20 CN. 335-10 322-10

ĐM, 607-28A 311-18

N.C 313-3

MB. 605-11B. 9M. 607-11B 313-4 SERIAL OUT CO MB. 605-14B 313-7 REC CS OUT

MB. 133-26 313-1

ĐM. 607-13B 313-6 PB CS OUT N. C 313-5 NC

N.C 312-25 MB. 605-9B. BM. 607-9B 313-2

AU-157AP, 601-27B 313-23 AU-157AP, 601-28B 313-22

CN. 338-4

CN, 335-11

CN. 338-1

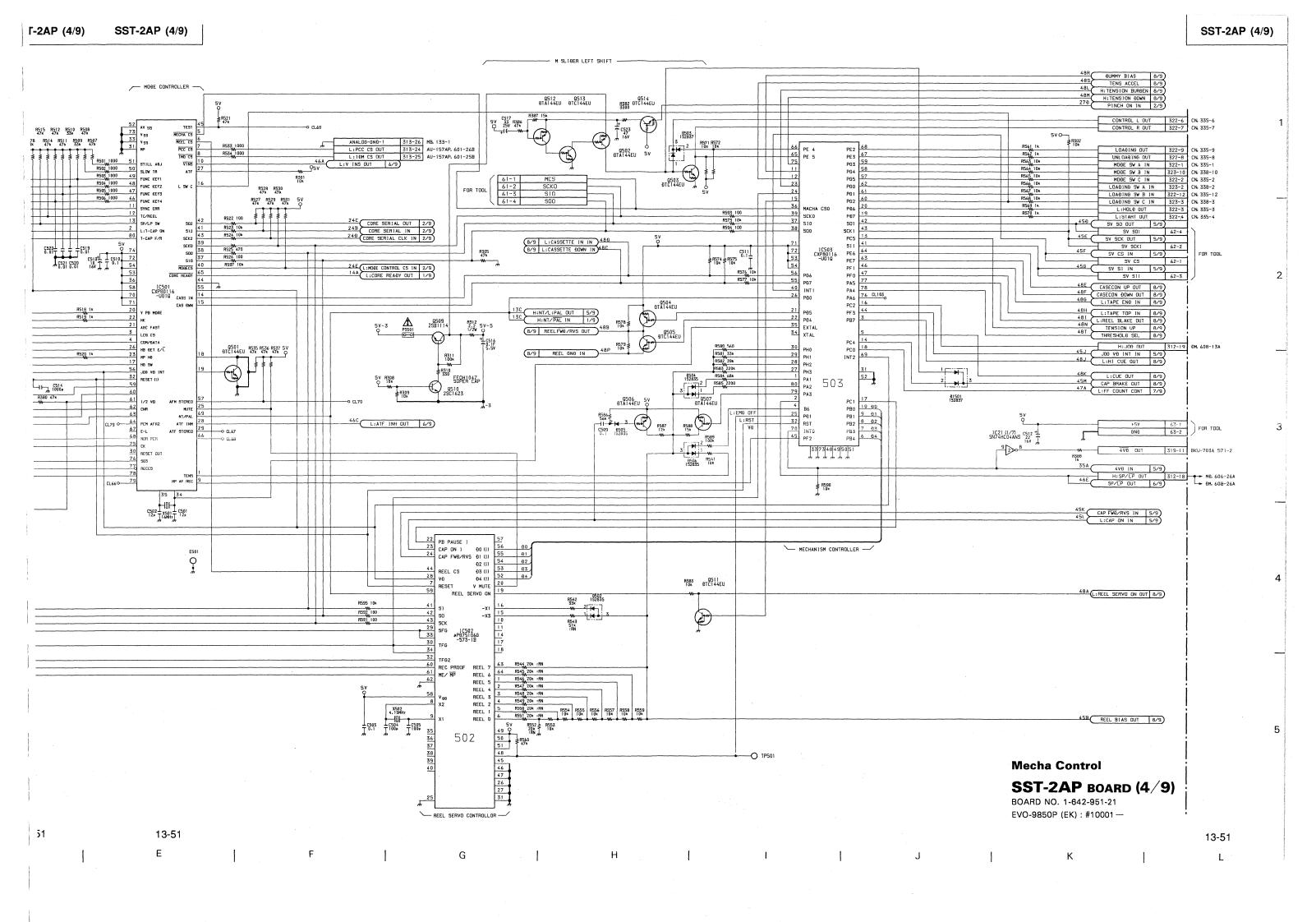
CN, 338-9 323-9

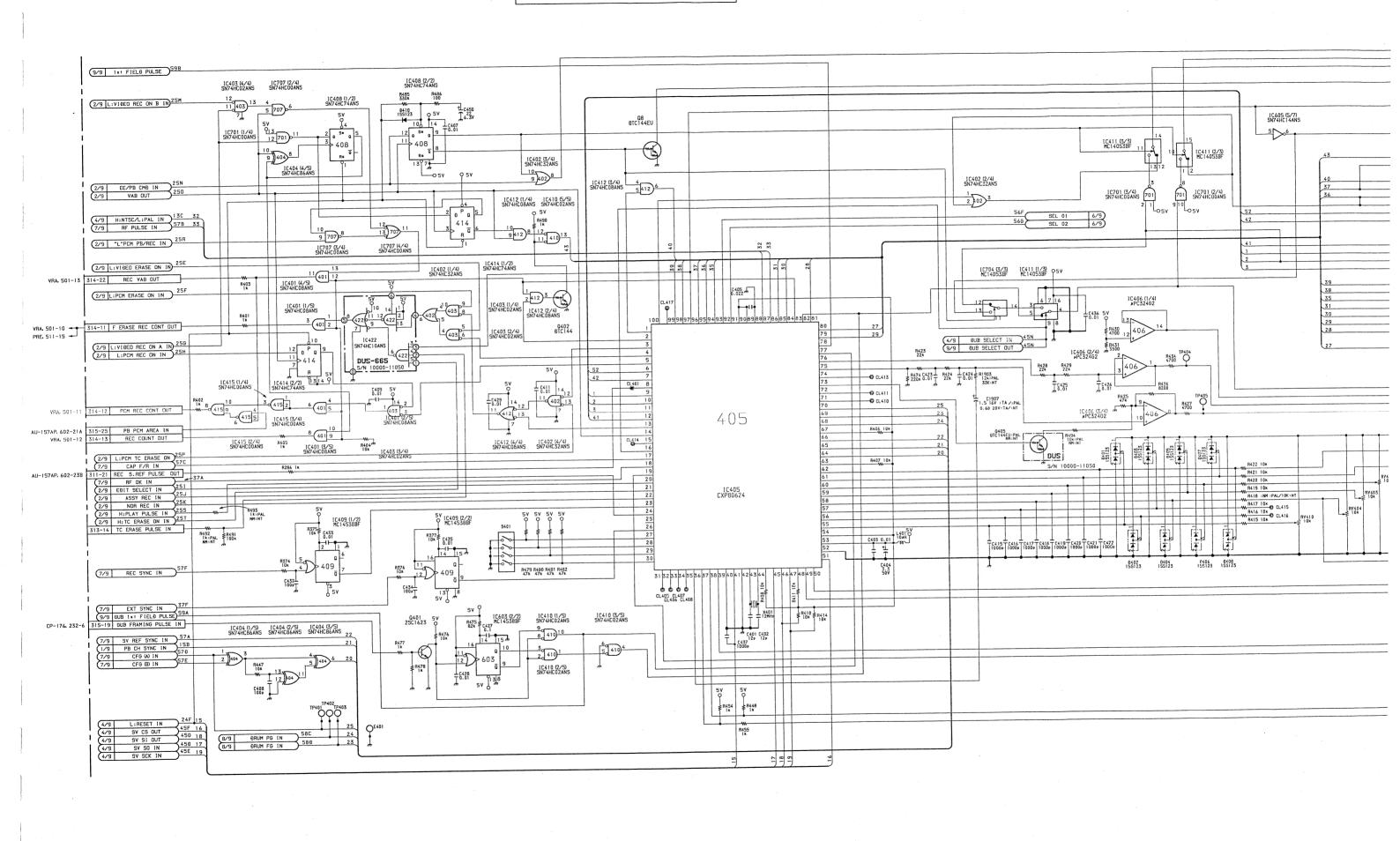
CN. 338-8 323-8

ALI-157AP. 601-298

PRE. 511-12, Mb. 606-25A ---VRA. 501-4. EM. 608-25A

AU-157AP. 602-13B



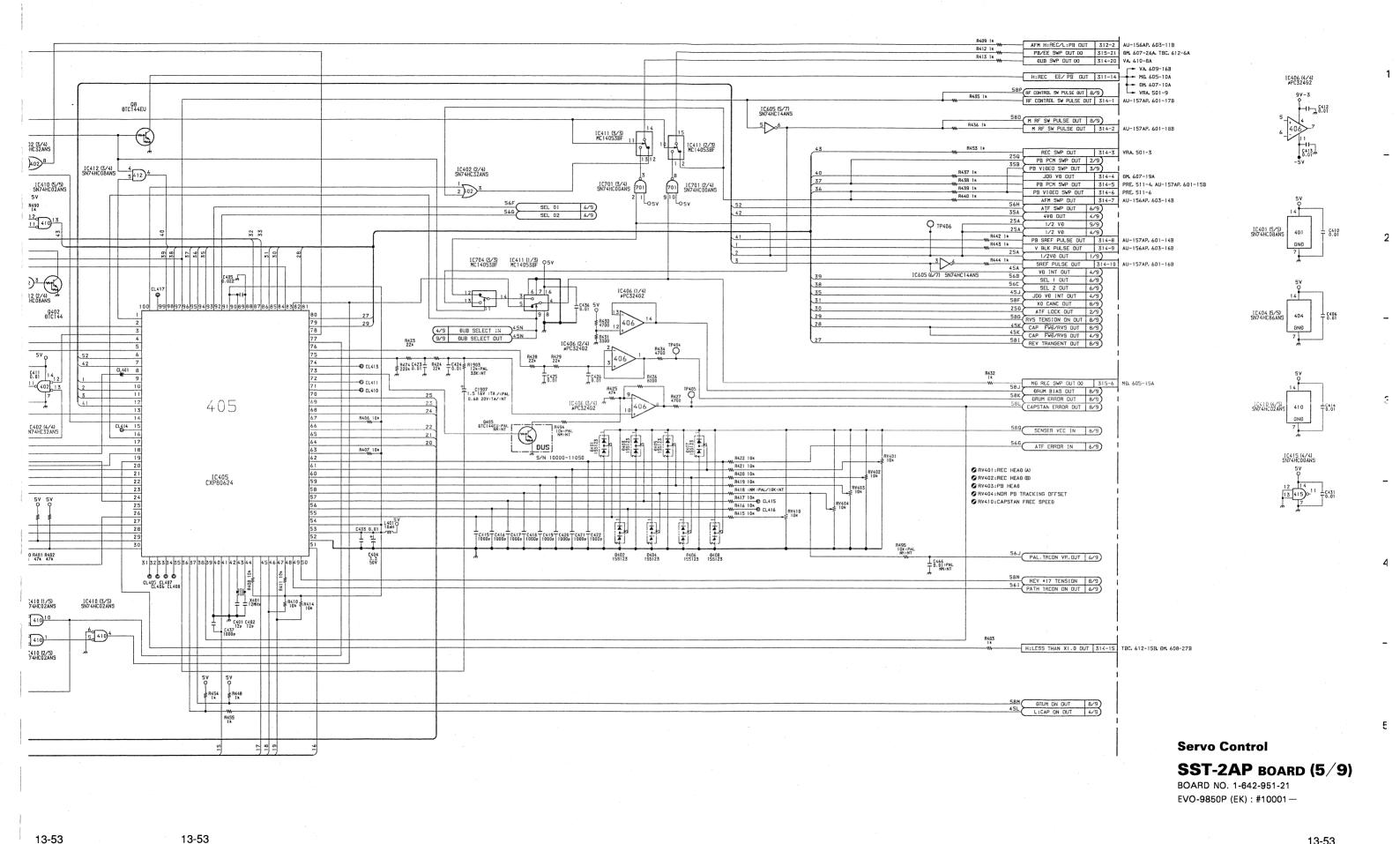


13-53 13-53 A | B | C | D | E | F | G | H | I

Ε

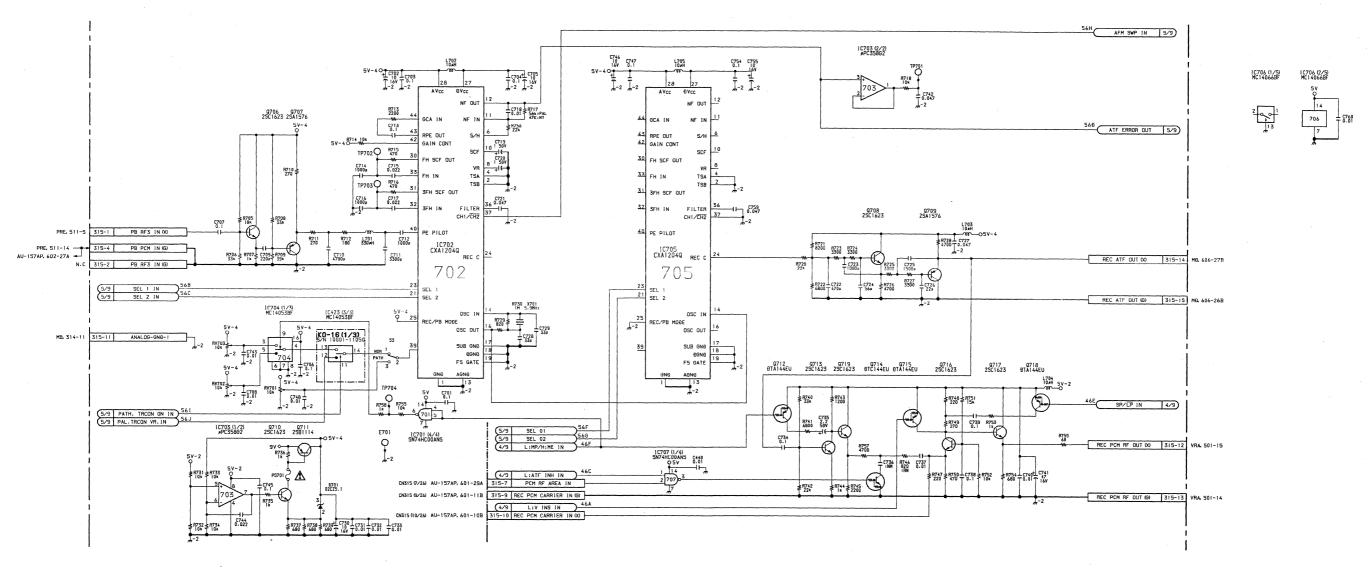
F

G



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13-53



#### **ATF Process**

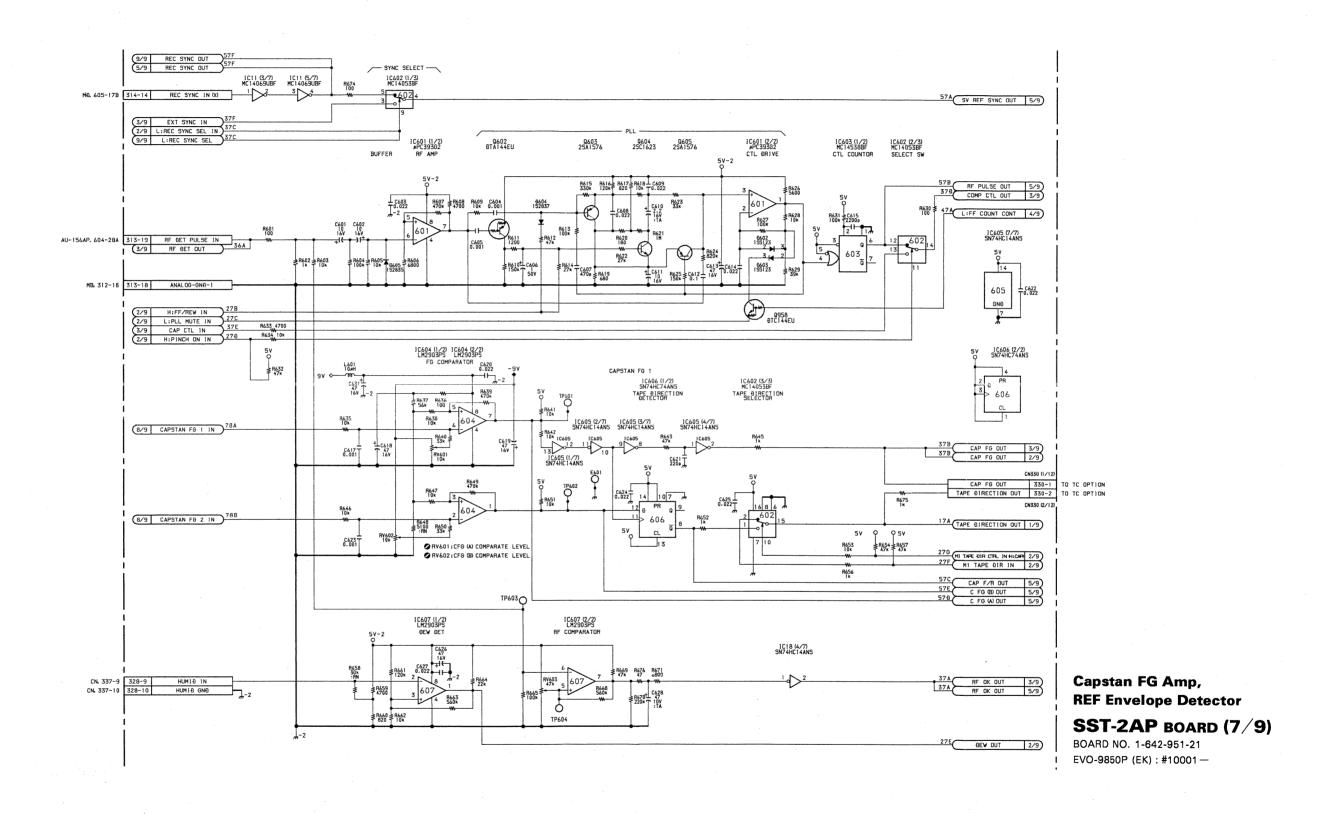
### **SST-2AP** BOARD (6/9)

BOARD NO. 1-642-951-21 EVO-9850P (EK): #10001 -

13-55

13-55

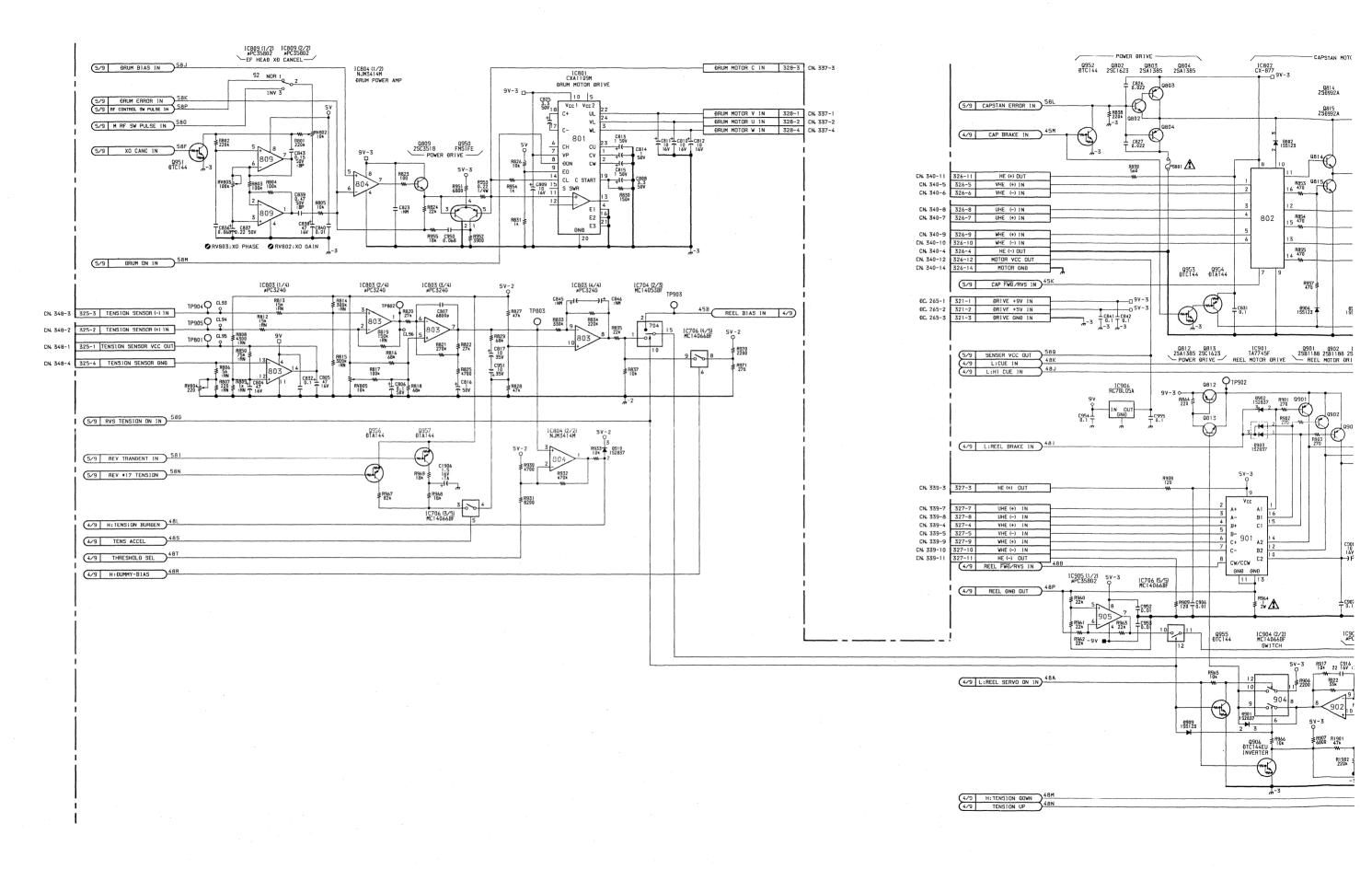
Ε



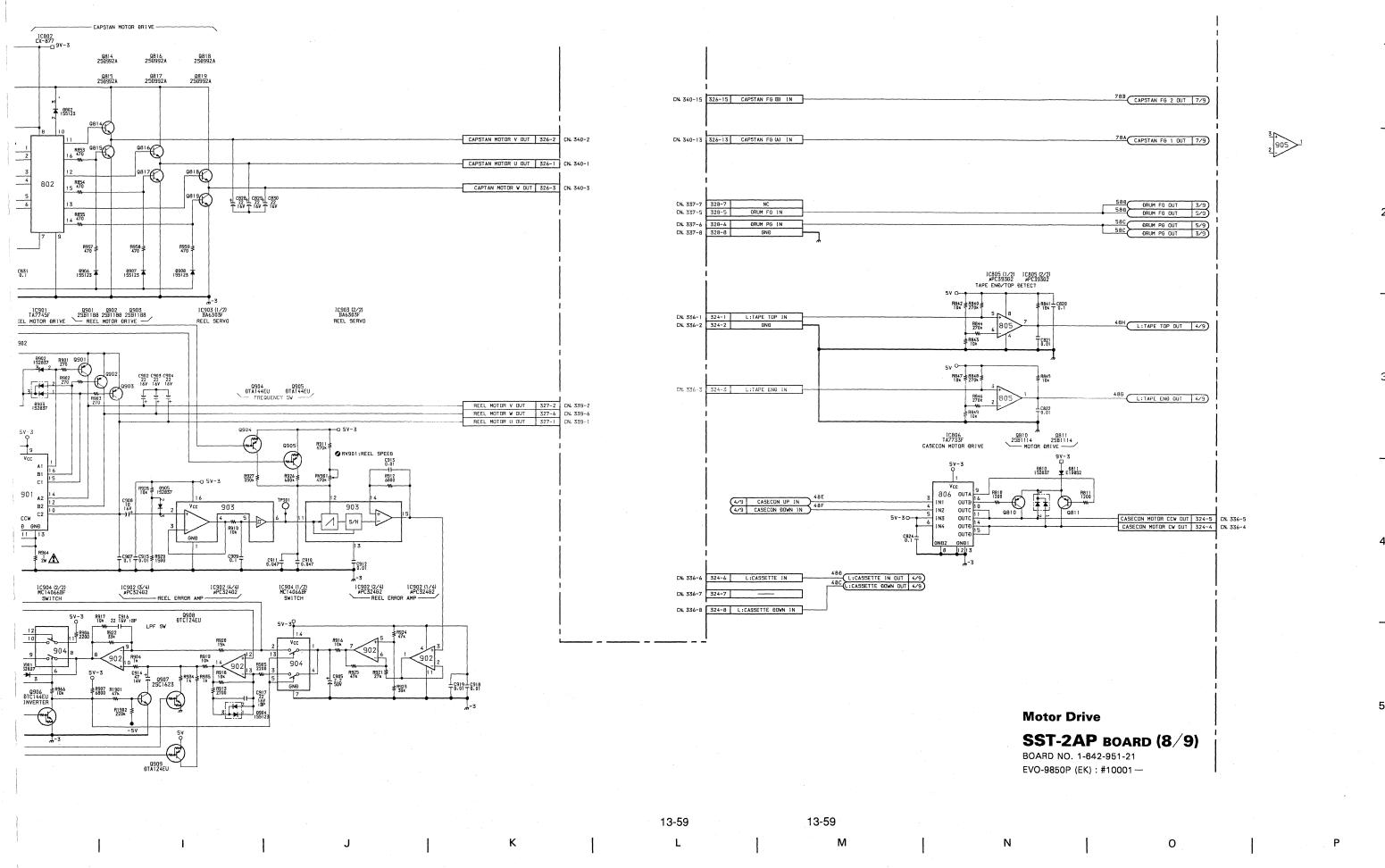
13-57

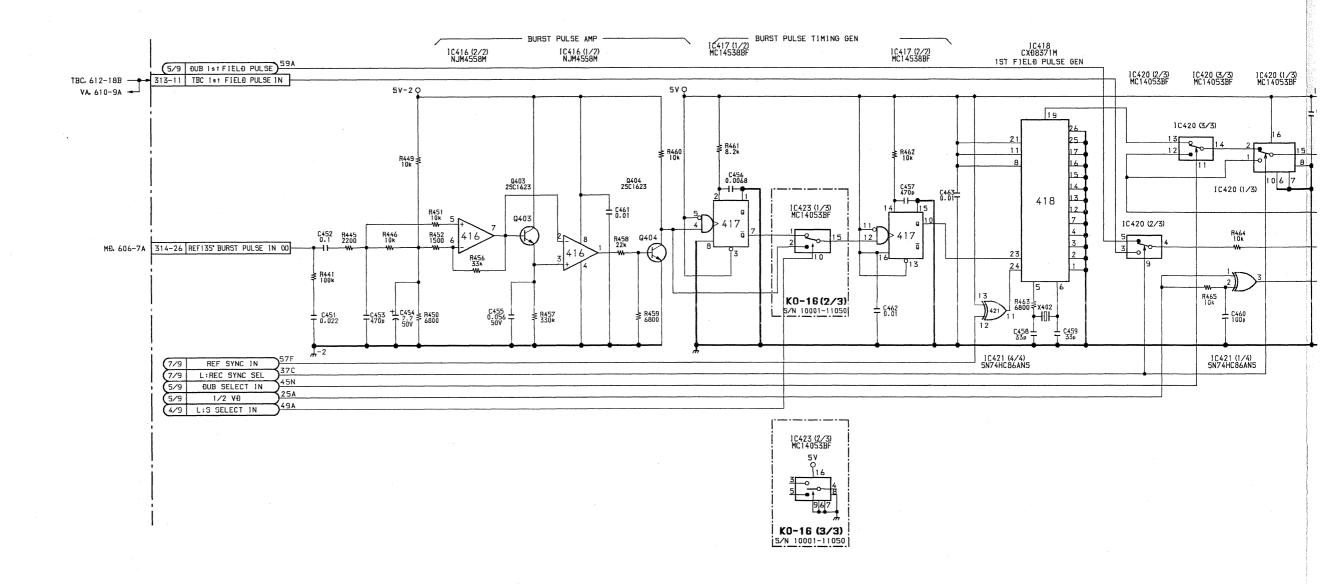
13-57

Е



13-59 13-59
A | B | C | D | E | F | G | H

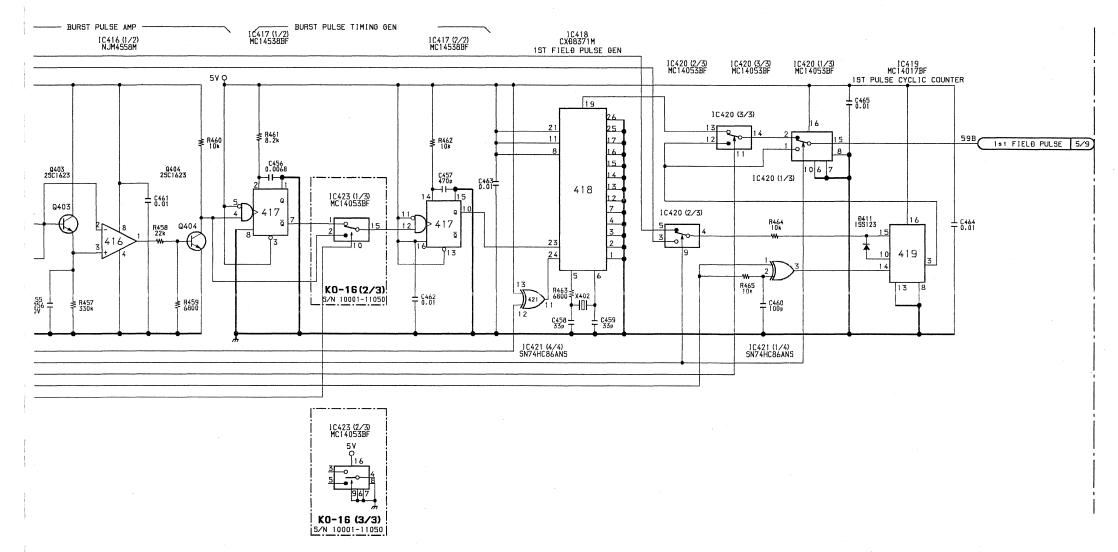




13-61 13-61 Ε D G

С

SST-2AP (9/9)



**1st Field Pulse Genelator** 

**SST-2AP** BOARD (9/9)

BOARD NO. 1-642-951-21 EVO-9850P (EK) : #10001 —

3-61 13-61

E

F

1.

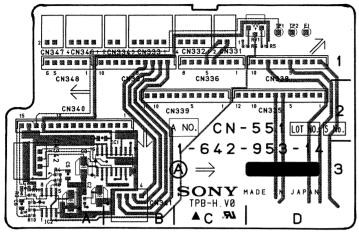
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13-61

1



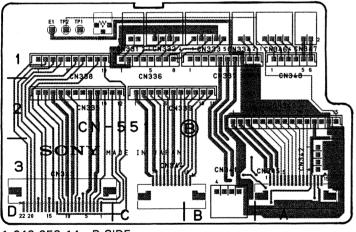


1-642-953-14 A SIDE

A Side is the same as Component Side

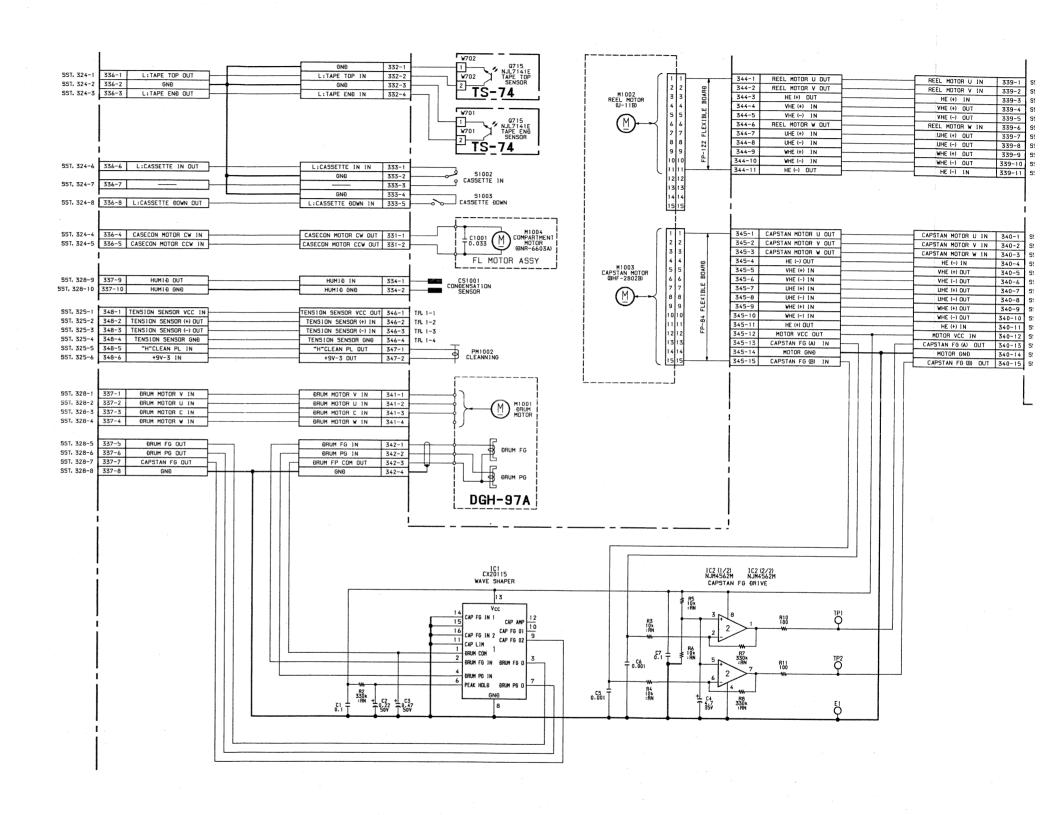
#### CN-551P BOARD

#### **B** Side



1-642-953-14 B SIDE

B Side is the same as Soldering Side



13-62

5

13-62

С

D

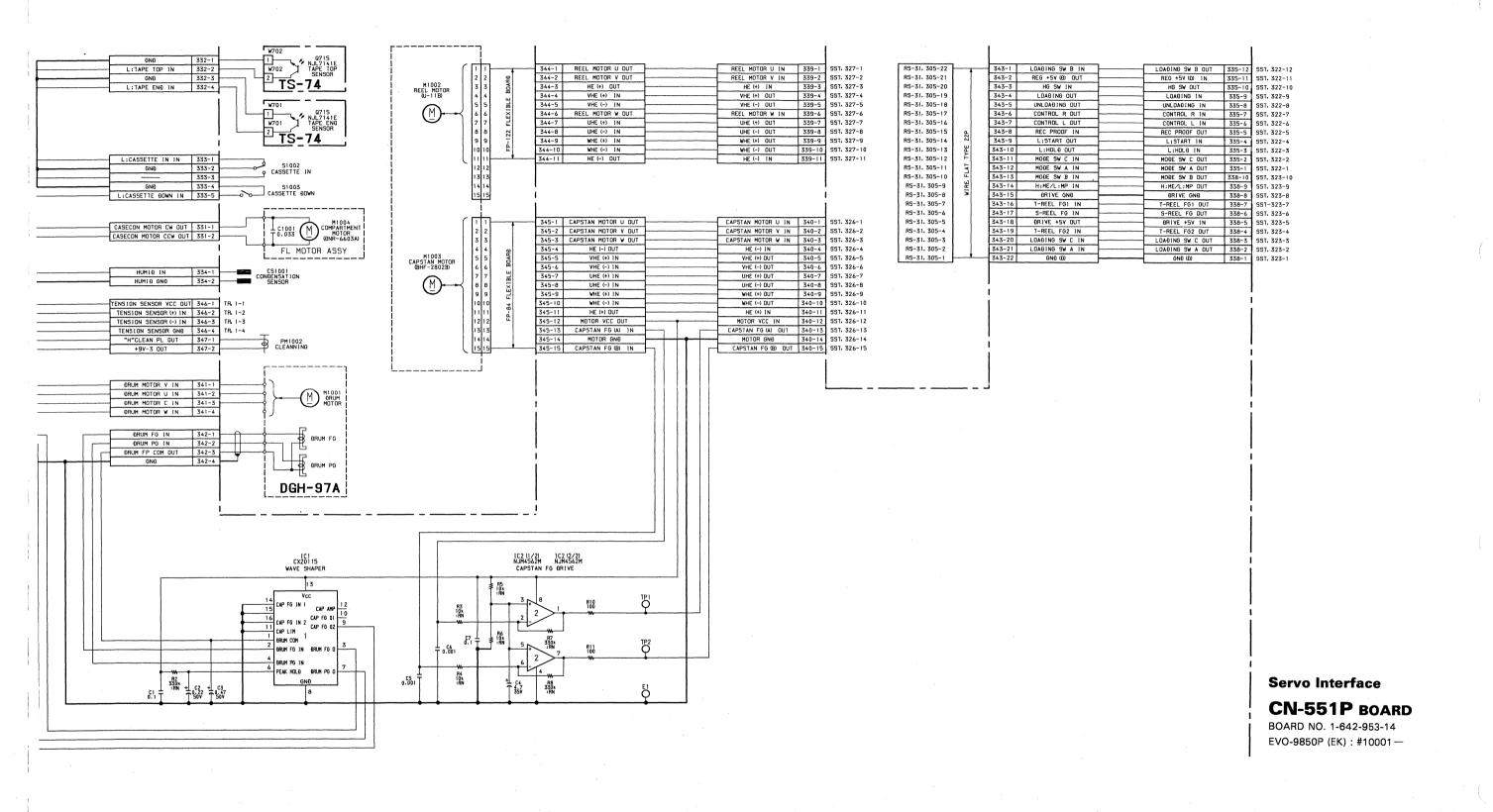
Ε

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Α

CN-551P



13-62

13-62

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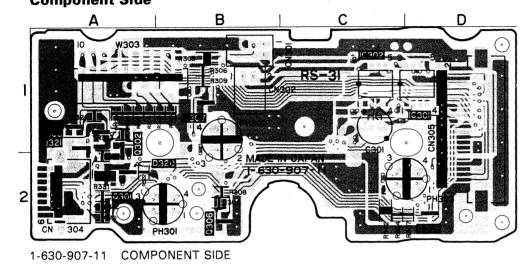
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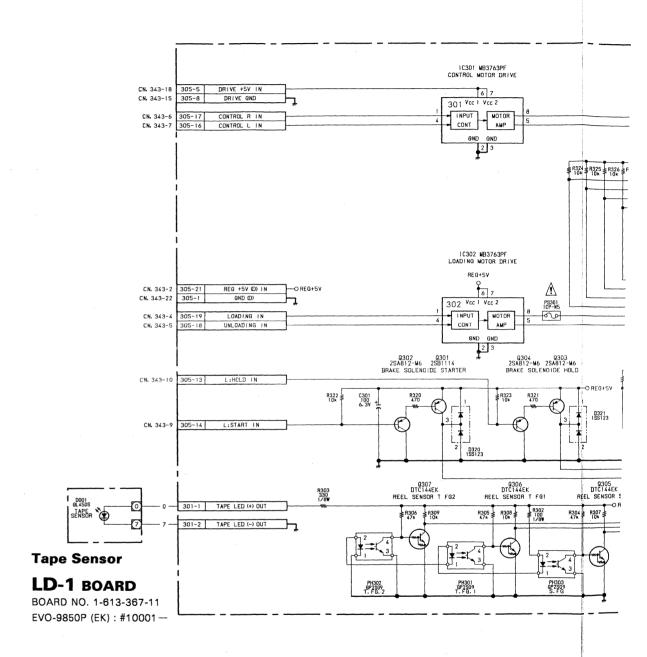
#### **RS-31** BOARD **Component Side**



#### LD-1 BOARD Solder Side



1-613-367-11 SOLDER SIDE

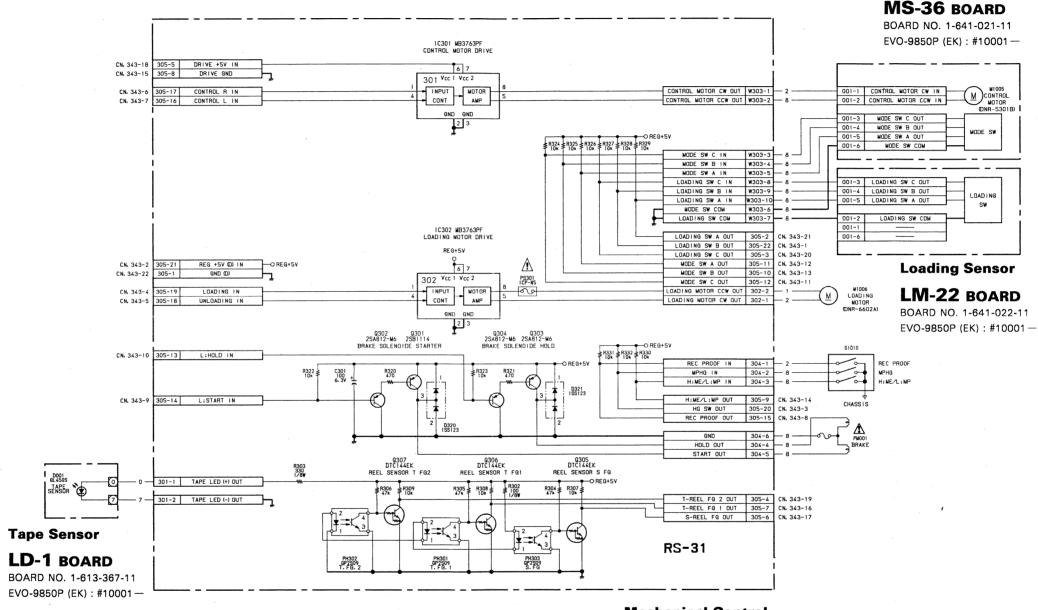


13-63

Ε

13-63

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**Mechanical Control** 

#### **RS-31 BOARD**

BOARD NO. 1-630-907-11 EVO-9850P (EK): #10001 --

13-63 13-63 Ε

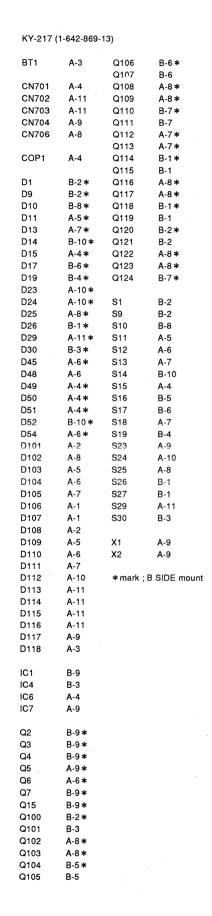
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**Mode Switch** 

13-63

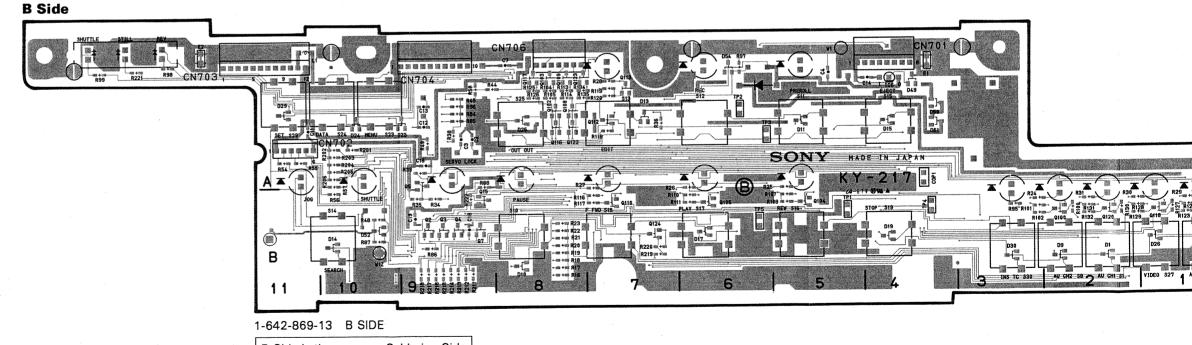
L



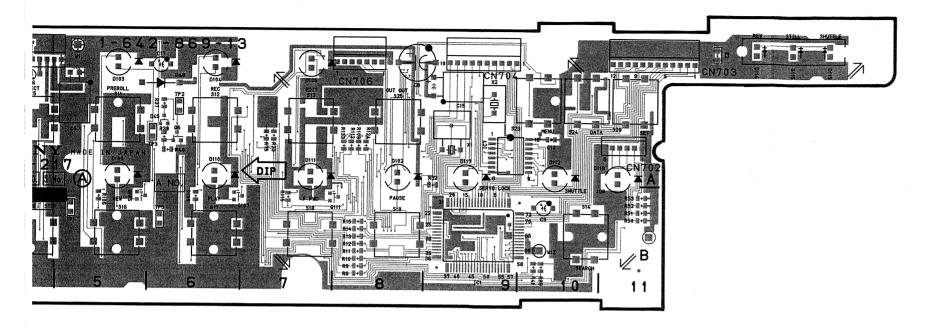
# KY-217 BOARD A Side CN703 1-642-869-13 A SIDE

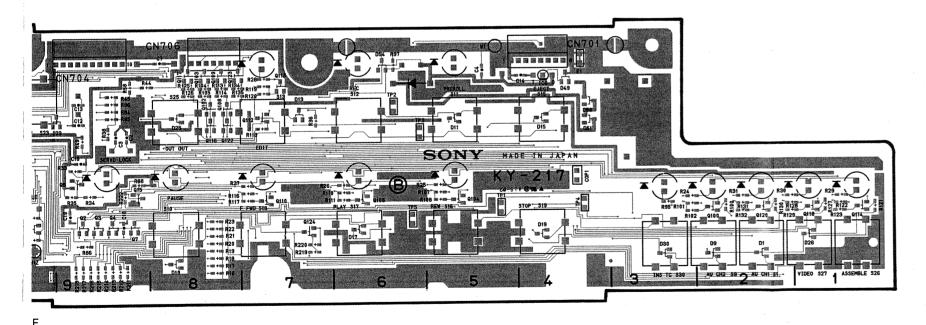
### KY-217 BOARD

A Side is the same as Component Side



B Side is the same as Soldering Side





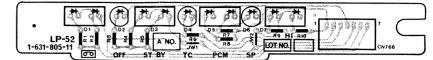
s Soldering Side

13-64

13-64

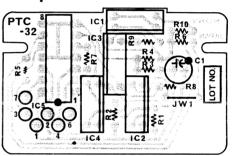
# LP-52 BOARD

#### **Component Side**

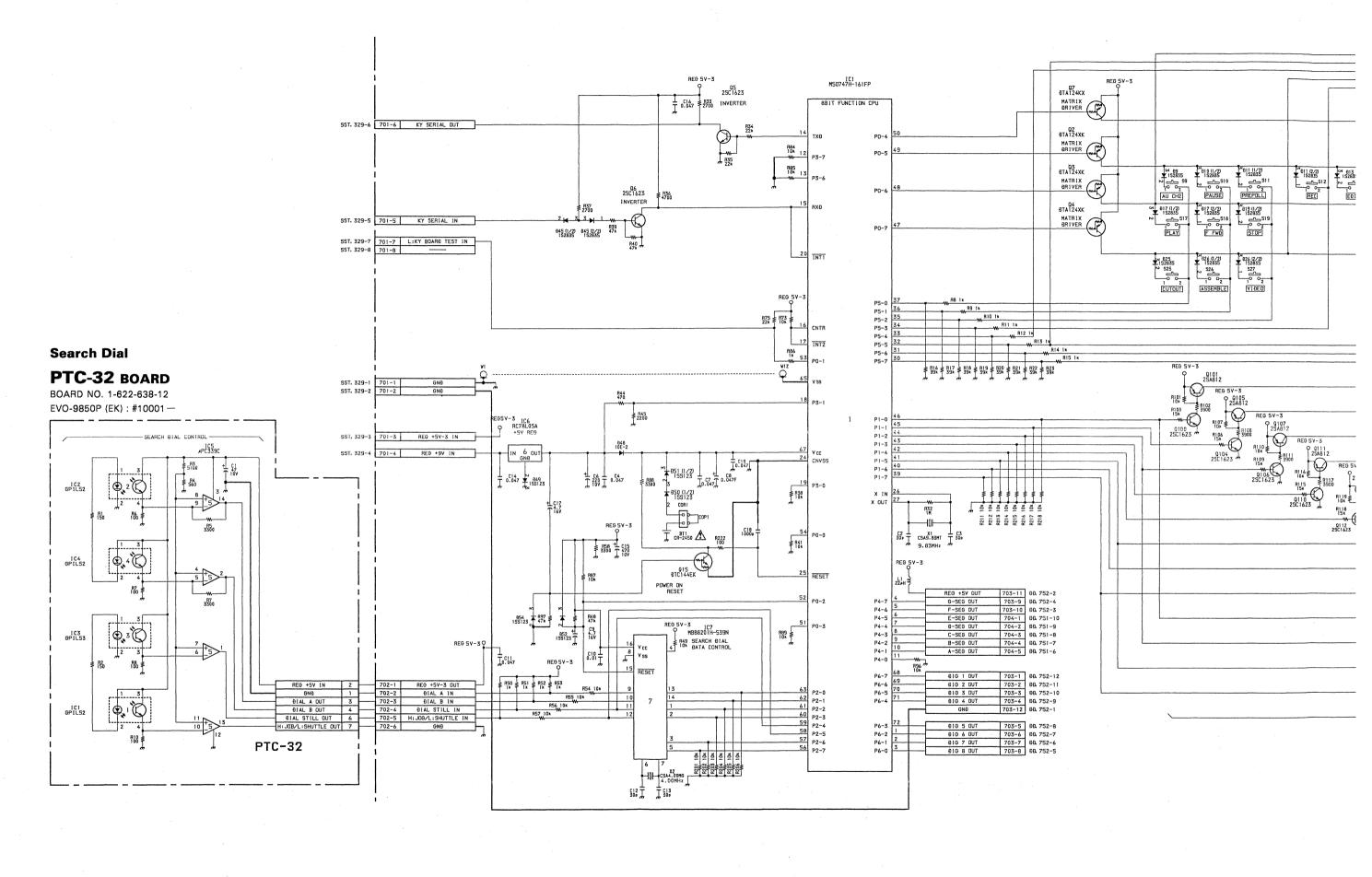


1-631-805-11 COMPONENT SIDE

# PTC-32 BOARD Component Side



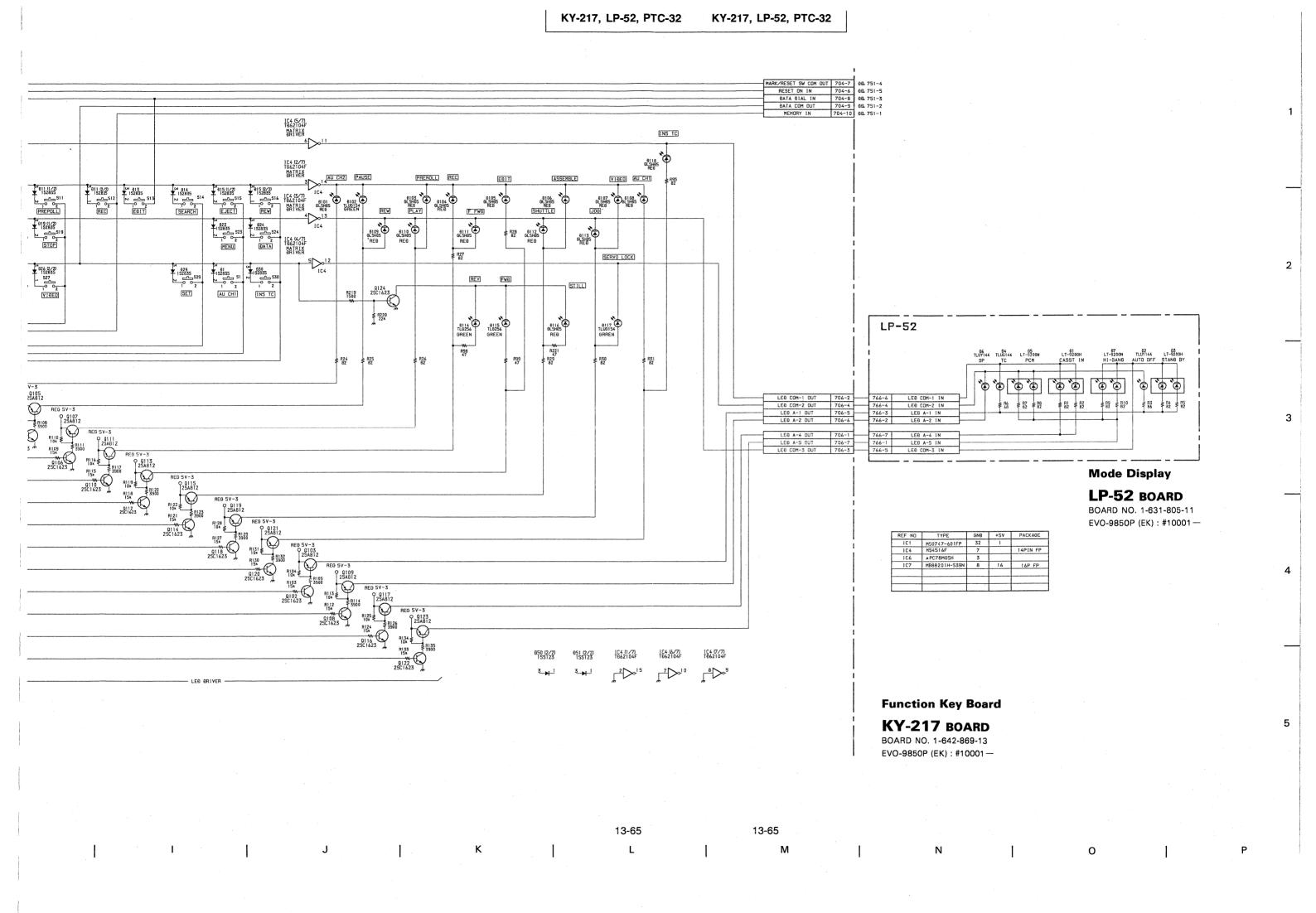
1-622-638-12 COMPONENT SIDE



13-65 13-65 D Ε F G

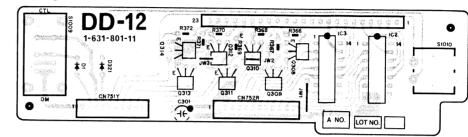
В

С



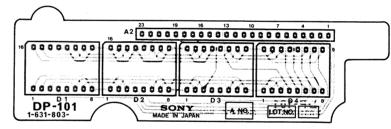
DD-12, DP-101

#### DD-12 BOARD **Component Side**



1-631-801-11 COMPONENT SIDE

#### DP-101 BOARD **Component Side**



1-631-803-12 COMPONENT SIDE

13-66

13-66

KY. 703-11 KY. 703-5 KY. 703-10 KY. 704-1 KY. 704-2 KY. 704-3 KY. 704-4 KY. 704-5

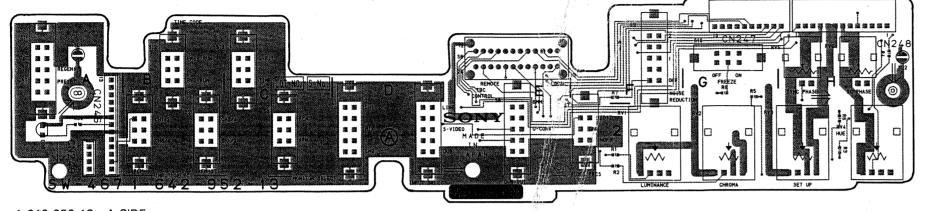
KY. 703-1 KY. 703-2 KY. 703-3 KY. 703-4 KY. 703-12

KY. 703-5 KY. 703-6 KY. 703-7 KY. 703-8

SW-467P

#### SW-467P BOARD

A Side

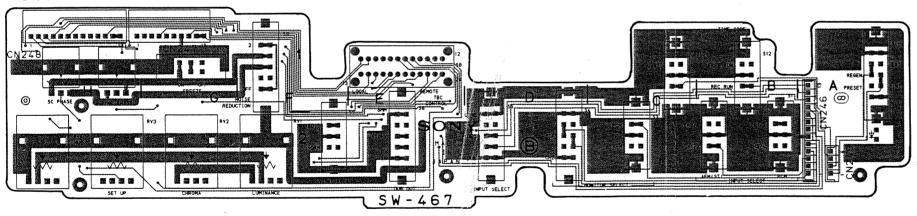


1-642-952-13 A SIDE

A Side is the same as Component Side

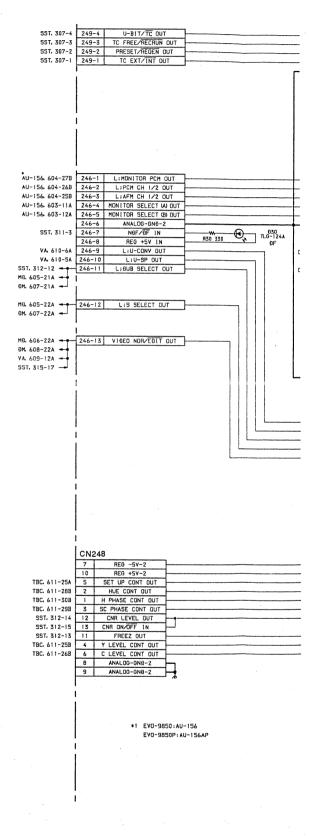
#### **SW-467P** BOARD

**B** Side



1-642-952-13 B SIDE

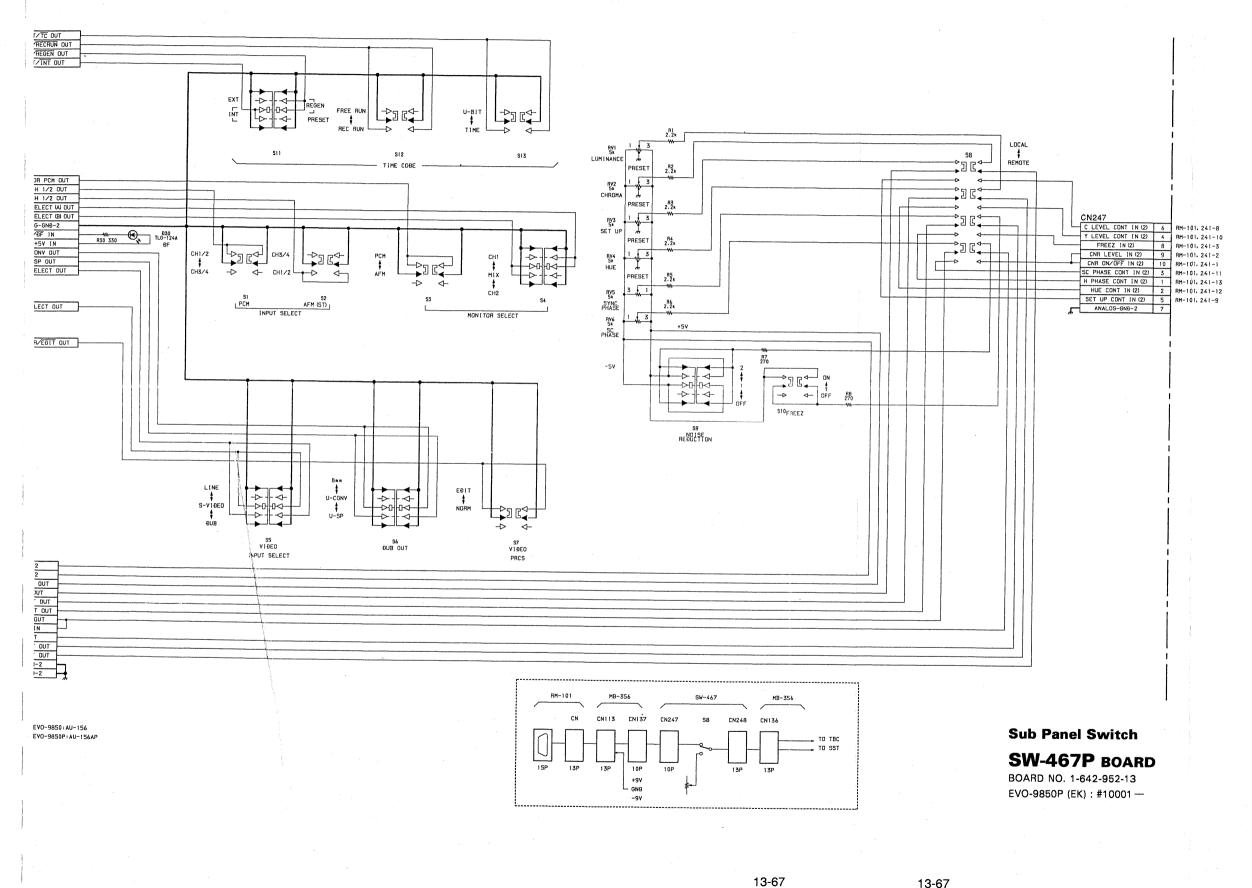
B Side is the same as Soldering Side



13-67

13-67

E

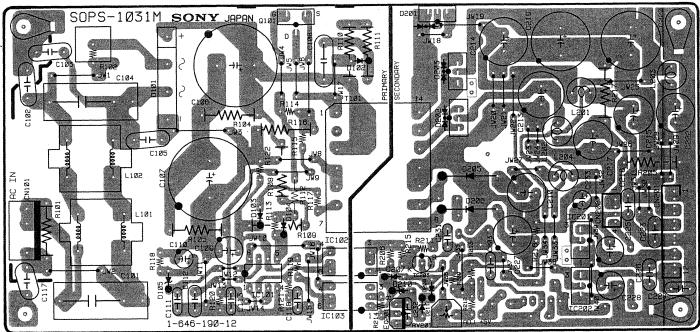


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#### SOPS-1031 BOARD

#### **Component Side**

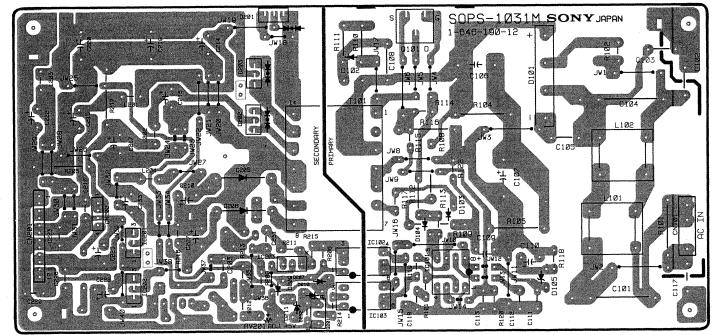


1-413-820-11 COMPONENT SIDE

#### SOPS-1031 BOARD

#### Solder Side

3



1-413-820-11 SOLDER SIDE

A C N902

| C N902
| C N902
| C N902
| C N902
| C N902
| C N902
| C N902
| C N902
| C N902
| C N902 C104 0.22 250V Q101 2SK14( C106 270 250V D101 D3SB60 R115 22 IC101 FA5304P CS ∱F.B CT C113 0.022 OUT GND R120 82 C118 0.022 ₩ R121 4.7k

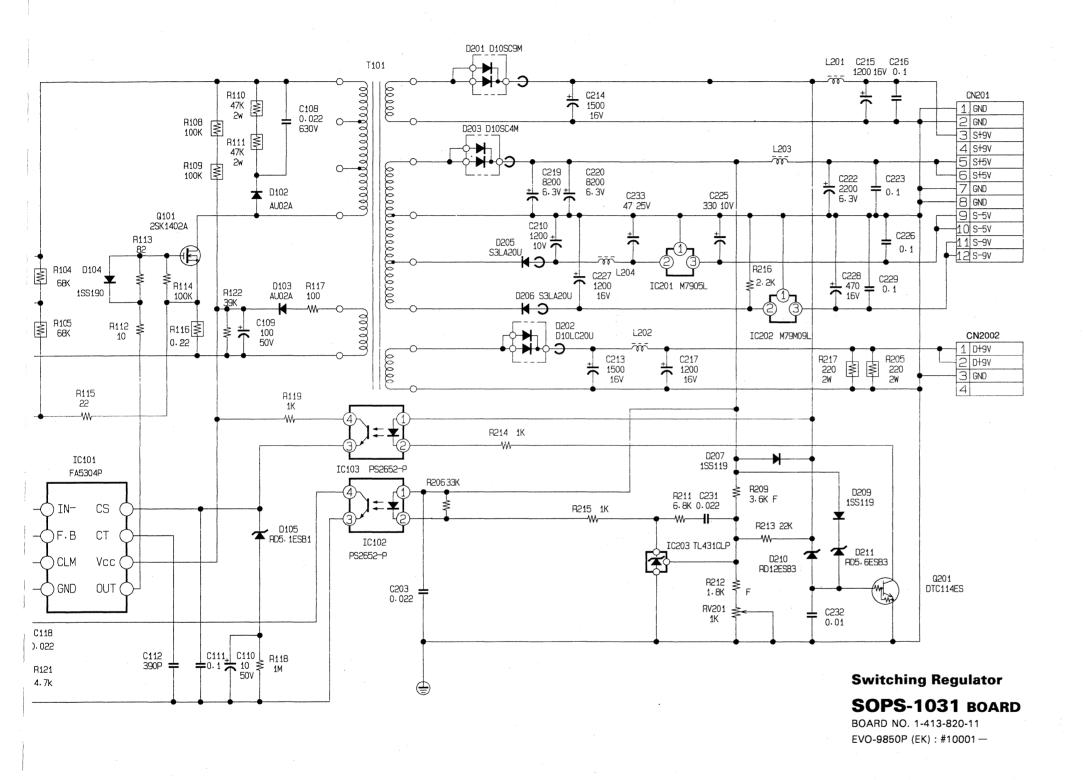
CN902

13-68

13-68

Ε

SOPS-1031



13-68 L

13-68

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Ν

MB-356P (1-642-955-13)

CN113 A-6 CN114 A-6 CN115 A-5 CN117 A-3 CN118 A-2 CN119 E-6

CN117 A-3 CN118 A-2 CN119 E-6 CN121 E-5 CN122 E-3 CN123 E-3

CN123 E-3 CN124 E-3 CN125 E-1 CN126 C-4 CN127 C-4 CN128 C-3 CN129 A-4

CN128 C-3 CN129 A-4 CN130 A-4 CN131 E-6 CN132 D-6 CN133 C-6

CN134 B-6 CN135 A-6 CN136 E-1 CN137 E-4 CN601 B-6 CN602 D-6

CN603 B-5 CN604 D-5 CN605 B-4 CN606 D-4

CN607 B-3 CN608 D-3 CN609 B-2 CN610 D-2

B-1

A-6

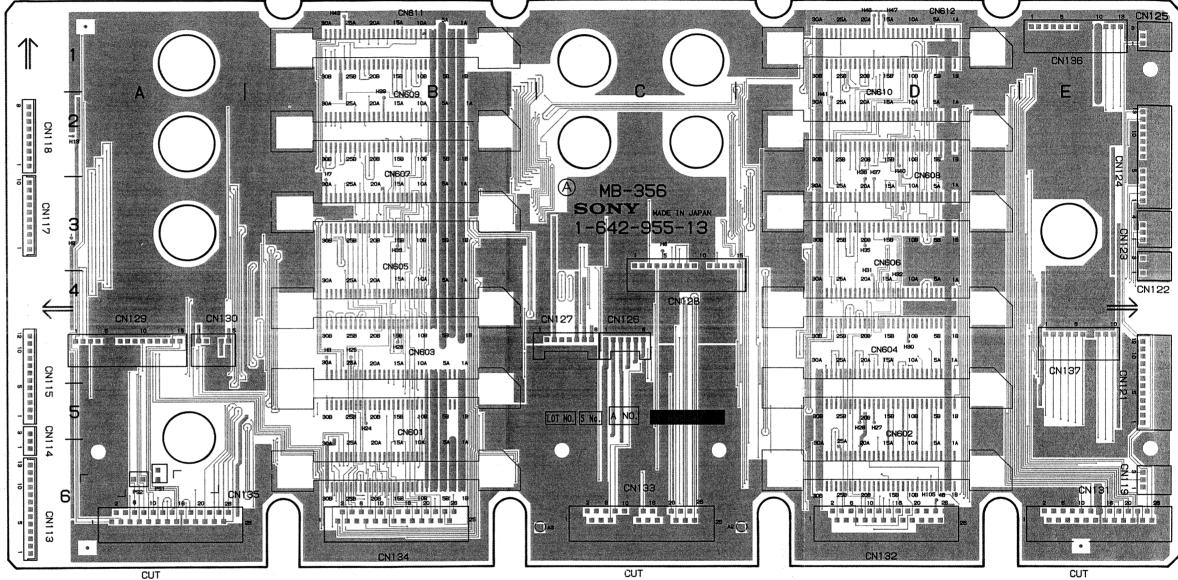
CN612 D-1 PS1 A-6

CN611

PS2

#### MB-356P BOARD

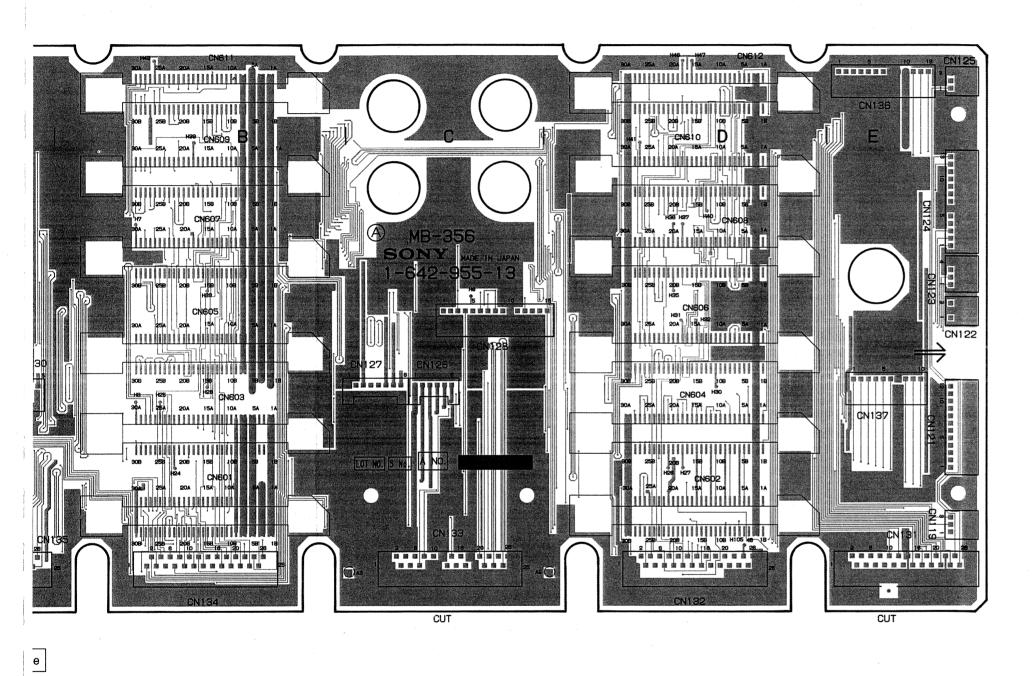




1-642-955-13 A SIDE

A Side is the same as Component Side

MB-356P



MR

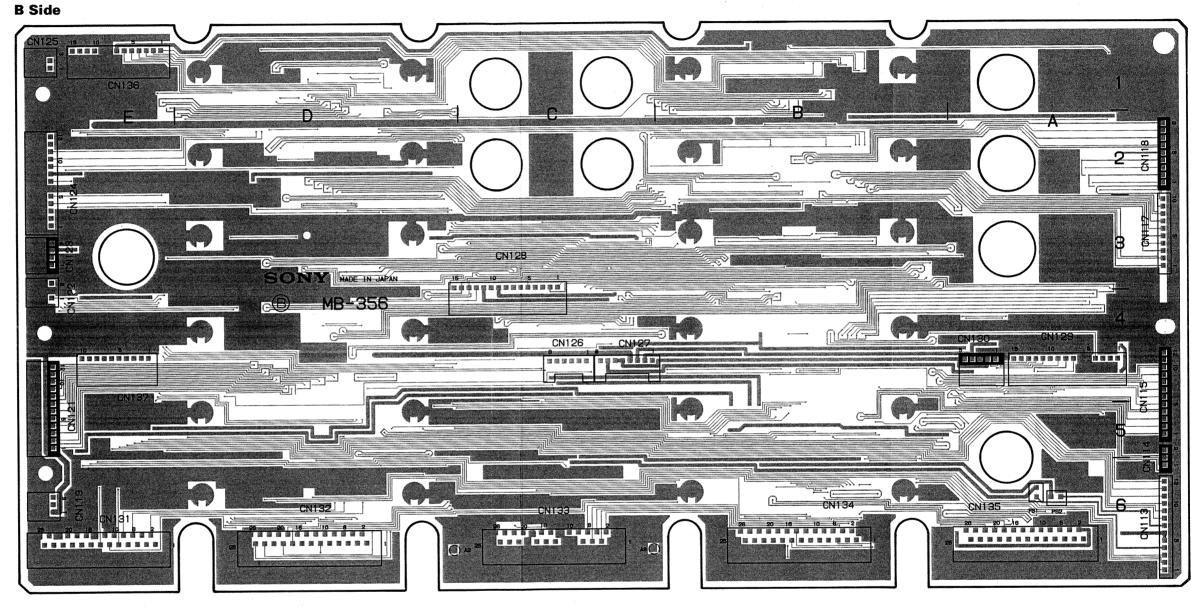
MB-356P (1-642-955-13)

CN113 A-6 CN114 A-6 CN115 A-5 CN117 A-3 CN118 A-2 CN119 E-6 CN121 E-5 CN122 E-3 CN123 E-3 CN124 E-3 CN125 E-1 CN126 CN127 C-4 C-4 CN128 C-3 CN129 A-4 CN130 A-4 E-6 CN131 CN132 D-6 C-6 CN133 CN134 B-6 CN135 A-6 CN136 E-1 CN137 E-4 CN601 B-6 CN602 D-6 CN603 B-5 CN604 D-5 CN605 B-4 CN606 D-4 CN607 B-3 CN608 D-3 CN609 B-2 CN610 D-2 CN611 B-1 CN612 D-1

PS1 PS2

A-6 A-6

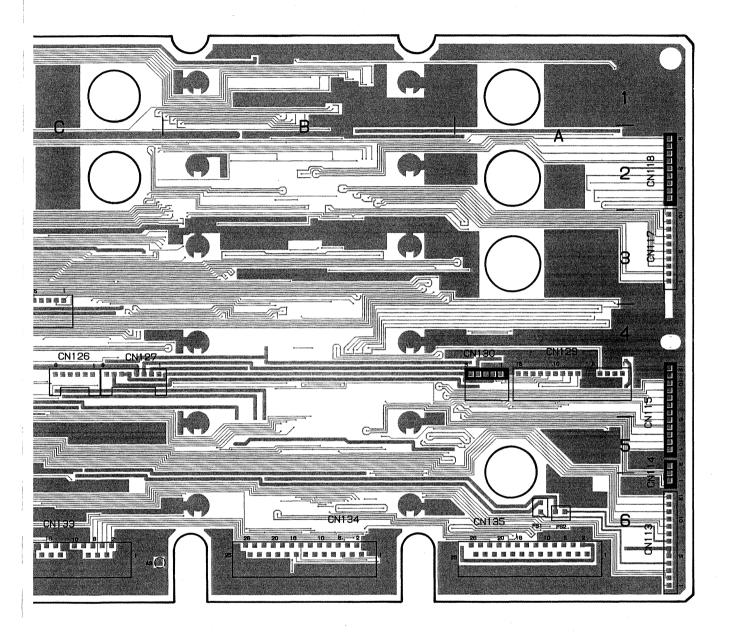
# MB-356P BOARD

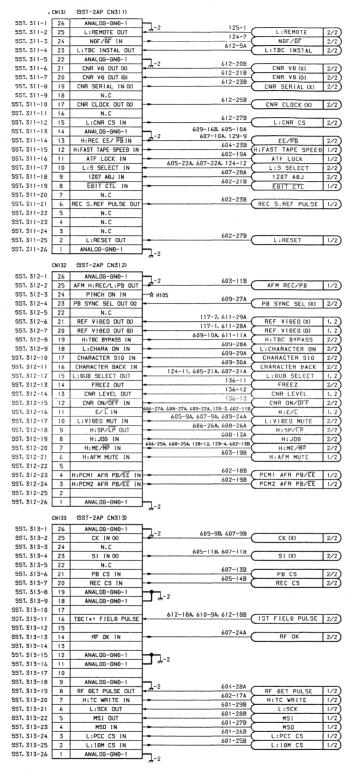


1-642-955-13 B SIDE

B Side is the same as Soldering Side

MB-356P





	26	RF CONTROL SW PULSE OUT	601-17B	DE CONTROL OU	1
ST. 314-1 ST. 314-2	25	M RF SW PULSE OUT	601-18B	RF CONTROL SW	1/
		REC SWP DUT	129-3	M RF SW PULSE	1/
T. 314-3	24	JOG VÐ IN	607-19A	REC SWP	2/
it. 314-4	23	PB PCM SWP OUT	601-15B, 128-4	JOG VÐ	2/
T. 314-6	21	PB VIĐEO SWP IN	128-6	PB PCM SWP	1,
T, 314-6	20	AFM SWP IN	603-14B	PB VIĐEO SWP	2/
it. 314-7	19	PB SREF PULSE OUT	601-14B	AFM SWP (X)	1/
	18		603-16B	PB SREF PULSE	1/
T. 314-9		V BLK PULSE IN	601-16B	V BLK PULSE (X)	1/
314-10	17	SREF PULSE IN	128-15, 129-10	SREF.P	1/
. 314-11	16	F ERASE REC CONT OUT PCM REC CONT OUT	129-11	F ERASE CONT	2/
	14		129-12	PCM REC CONT	2/
314-13		REC CONT IN	605-17B	REC CONT	2/
. 314-14	13	REC SYNC DUT (X)	608-27B, 612-15B	REC SYNC (X)	2/
314-15	12	H:LESS THAN X 1.0	601-20A	H:LESS THAN X 1.0	-
314-16	11	L:J-AUÐ10 CS IN	601-22A	L:J-AUÐIO CS	1/
. 314-17	10	J-AUÐIÐ SERIAL IN	601-21A	J-AUÐIO SERIAL	1/
. 314-18	9	J-AUÐIO CLOCK IN	602-15B	J-AUÐIO CLOCK	1/
. 314-19	8	H:PCM MUTE IN	610-8A	H:PCM MUTE	1/
. 314-20	7	ĐƯB SWP QUT (X)	601-19A	ĐUB SWP (X)	2/
. 314-21	6	CAP FG IN	129-13	CAP FG	1/
314-22	5	REC AB IN	601-15A	REC AB	2/
314-23	4_	H:PCM PB/REC IN	601 14A	H;PCM PB/REC	1/
. 314-24	3	H:PCM AFREC IN	612-14B, 608-7B	H:PCM AFREC	1/
314-25	2	PB 135' BURST PULSE DUT CO REF 135' BURST PULSE OUT CO	606-7A	PB BURST PULSE (X)	2/
T. 315-1	26	(SST-2AP CN315) PB RF3 IN (X)	128-5 HB	PB RF3 (X)	2/
T. 315-2	25	PB RF3 IN (G)	L 10		
T. 315-3			/02 2/4 120 17	( PB RF3 (G)	2/
1. 212-2	24	PB PCM IN 00	602-26A 128-13	PB PCM (X)	-
T. 315-4	24		602-27A 128-14	<del></del>	1.
T. 315-4		PB PCM IN CO	602-27A 128-14 601-23A 607-11A	PB PCM (X)	1.
T. 315-4 T. 315-5	23	PB PCM IN (X) PB PCM IN (G)	602-27A 128-14 601-23A 607-11A 605-15A	PB PCM (X) PB PCM (G)	1.
	23	PB PCM IN 00 PB PCM IN (G) PB SYNC ĐM OUT (X)	602-27A 128-14 601-23A 607-11A 605-15A 601-29A	PB PCM (X) PB PCM (G) PB SYNC £M (X)	1.
T. 315-4 T. 315-5 T. 315-6	23 22 21	PB PCM IN (O) PB PCM IN (G) PB SYNC DM DUT (X) MD REC SWP IN (X)	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B	PB PCM (X) PB PCM (G) PB SYNC DM (X) MD REC SWP (X)	1.
T. 315-4 T. 315-5 T. 315-6 T. 315-7	23 22 21 20	PB PCM IN CO PB PCM IN (G) PB SYNC 0M OUT CO MB REC SWP IN CO PCM RF AREA OUT H:PCM PB/ZE IN REC PCM CARRIER IN (G)	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-05 602-05 601-11H	PB PCM (X) PB PCM (G) PB SYNC ĐM (X) MĐ REC SWP (X) PCM RF AREA	1. 1. 1. 2/ 1/
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9	23 22 21 20 19 18	PB PCM IN CO PB PCM IN (G) PB SYNC DM OUT CO MD REC SWP IN CO PCM RF AREA OUT H:PCM PBZ/EE IN REC PCM CARRIER IN (G) REC PCM CARRIER IN (O)	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B	PB PCM (X) PB PCM (G) PB SYNC DM (X) MB REC SWP (X) PCM RF AREA H:PCM PB/EE	1. 1. 2/ 1/ 1/
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 T. 315-10	23 22 21 20 19 18 17	PB PCM IN (0) PB PCM IN (6) PB SYNC DM OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H:PCM PB/EE IN REC PCM CARRIER IN (6) ANALOG-GNB-I	602-27A, 128-14 601-23A, 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/EE REC PCM CARRIER (G) REC PCM CARRIER (X)	1. 1. 2/ 1/ 1/
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 T. 315-10 T. 315-11 T. 315-12	23 22 21 20 19 18 17 16	PB PCM IN 00 PB PCM IN 00 PB SYNC DM OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H:PCM PEZEE IN REC PCM CARRIER IN 00 ANALOG-GNB-1 REC PCM RF IN 00	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B	PB PCM (X) PB PCM (G) PB SYNC 6M (X) PB SYNC 6M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/FE REC PCM CARRIER (X) REC PCM CARRIER (X)	1. 1. 1. 1/ 1/ 1/ 1/
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 . 315-10 . 315-11 . 315-12	23 22 21 20 19 18 17 16 15	PB PCM IN 00 PB PCM IN 00 PB SYNC DM OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H:PCM PB/EE IN REC PCM CARRIER IN 00 ANALOG-GNB-! REC PCM RF IN 00 REC PCM RF IN (G)	602-27A, 128-14 601-23A, 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/EE REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (X) REC PCM RF (G)	1. 1. 1. 2/ 1/ 1/ 1/ 1/ 2/ 2/
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 . 315-10 . 315-11 . 315-12 . 315-13	23 22 21 20 19 18 17 16 15 14	PB PCM IN GO PB PCM IN GO PB SYNC DM OUT CO MO REC SWP IN GO PCM RF AREA OUT H:PCM PB/ZE IN GO REC PCM CARRIER IN GO REC PCM CARRIER IN GO ANALGG-GNB-I REC PCM RF IN GO	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B 129-15 129-14 606-27B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H.PCM PB/EE REC PCM CARRIER (G) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (X) REC PCM RF (X)	1. 1. 1. 2/ 1/ 1/ 1/ 1/ 2/ 2/ 2/
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 . 315-10 . 315-11 . 315-12 . 315-14 . 315-14	23 22 21 20 19 18 17 16 15 14	PB PCM IN 00 PB PCM IN 00 PB SYNC DM OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H-PCM PEZEE IN REC PCM CARRIER IN 00 ANALOG-OND-1 REC PCM RF IN 00 REC PCM RF IN 00 REC ATF IN 00 REC ATF IN (6)	602-27A 128-14 601-23A 607-11A 601-23A 607-11A 601-29A 601-29A 601-10B 601-10B 1-2 129-15 129-15 606-27B 606-28B	PB PCM (X) PB PCM (G) PB SYNC 6M (X) M0 REC SWP (X) PCM RF AREA H-PCM PB/FE REC PCM CARRIER (X) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (X) REC ATF (X) REC ATF (G)	1, 1, 1, 1/ 1/ 1/ 1/ 1/ 2/ 2/ 2/ 2/
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 . 315-10 . 315-11 . 315-12 . 315-13 . 315-14 . 315-15	23 22 21 20 19 18 17 16 15 14 13	PB PCM IN 00 PB PCM IN 00 PB SYNC 9M OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H:PCM PB/EE IN REC PCM CARRIER IN 00 ANALOG-GN8-I REC PCM RF IN 00 REC ATF IN 00 PCM AREA IN	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B 7-2 129-15 129-14 606-27B 606-27B 606-27B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H.PCM PB/EE REC PCM CARRIER (G) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (X) REC PCM RF (X)	1. 1. 1. 1/ 1// 1// 1// 1// 2// 2// 2// 2//
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 315-10 315-11 315-12 315-13 315-14 315-15 315-16	23 22 21 20 19 18 17 16 15 14 13 12 11	PB PCM IN CO PB PCM IN CO PB YENC OM OUT CO MO REC SWP IN CO PCM RE AREA OUT H:PCM PB/ZE IN REC PCM CARRIER IN CO REC PCM CARRIER IN CO ANALOG-GNB-1 REC PCM RF IN CO REC PCM RF IN CO REC ATF IN CO	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B 129-15 129-14 606-27B 606-27B 606-22A 608-22A 609-12A 124-15	PB PCM (X) PB PCM (G) PB SYNC 6M (X) M0 REC SWP (X) PCM RF AREA H-PCM PB/FE REC PCM CARRIER (X) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (X) REC ATF (X) REC ATF (G)	1. 1. 1. 1./ 1./ 1./ 1./ 1./ 1./ 2./ 2./ 2./ 1./
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 315-10 315-11 315-12 315-14 315-15 315-14 315-15 315-16	23 22 21 20 19 18 17 16 15 14 13 12 11	PB PCM IN 00 PB PCM IN 00 PB SYNC DM OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H-PCM PEZE IN REC PCM CARRIER IN 00 ANALOG-OND-1 REC PCM RF IN 00 REC PCM RF IN (6) REC PCM RF IN (6) REC ATF IN (7) REC ATF IN (8) PCM AREA IN H: V18EO NOR/ZĒDIT TAPE ⊕IRECTION F/R	602-27A 128-14 601-23A 607-11A 601-23A 607-11A 601-29A 601-29A 601-18 601-11B 601-10B 129-15 129-15 406-27B 606-27B 606-22A 608-22A 609-12A 124-13 601-10B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/FE REC PCM CARRIER (X) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (G) REC ATF (X) REC ATF (X) REC ATF (X) TABLE ONON/EDIT TAPE DIRECTION	1. 1. 1. 1./ 1/ 1/ 1/ 1/ 1/ 2/ 2/ 2/ 1/ 1/
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 315-10 315-11 315-12 315-14 315-15 315-14 315-15 315-16	23 22 21 20 19 18 17 16 15 14 13 12 11 10 9	PB PCM IN 00 PB PCM IN 00 PB SYNC 9M OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H:PCM PB/EE IN RC PCM CARRIER IN 00 ANALOG-GNB-I REC PCM RF IN 00 REC PCM RF IN 00 REC ATF IN 00 REC ATF IN 00 REC ATF IN 00 PCM AREA IN H: VI9EO NDR/E0IT APE 6 DIRECTION F/R OUB FRAMING PULSE IN	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B 7-2 129-15 129-14 606-27B 606-27B 606-27B 606-27B 606-27B 606-27B 606-28A 608-22A 609-12A 124-15 601-16A	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H.PCM PB/EE REC PCM CARRIER (G) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (X) REC ATF (G) PCM AREA V10E0 NOR/E017	1. 1. 1. 2/ 1/ 1/ 1/ 1/ 2/ 2/ 2/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-7 T. 315-9 T. 315-11 T. 315-12 T. 315-13 T. 315-14 T. 315-15 T. 315-15 T. 315-16 T. 315-17 T. 315-18	23 22 21 20 19 18 17 16 15 14 13 12 11	PB PCM IN 00 PB PCM IN 00 PB SYNC DM OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H-PCM PEZE IN REC PCM CARRIER IN 00 ANALOG-OND-1 REC PCM RF IN 00 REC PCM RF IN (6) REC PCM RF IN (6) REC ATF IN (7) REC ATF IN (8) PCM AREA IN H: V18EO NOR/ZĒDIT TAPE ⊕IRECTION F/R	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B 129-14 606-27B 606-27B 606-22A 608-22A 609-12A 124-13 601-10B 115-6 607-21B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/FE REC PCM CARRIER (X) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (G) REC ATF (X) REC ATF (X) REC ATF (X) TABLE ONON/EDIT TAPE DIRECTION	1. 1. 2./ 1./ 1./ 1./ 1./ 1./ 1./ 1./ 1./ 1./ 1
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-10 T. 315-11 T. 315-12 T. 315-14 T. 315-15 T. 315-16 T. 315-16 T. 315-18 T. 315-18 T. 315-18 T. 315-18 T. 315-19 T. 315-19	23 22 21 20 19 18 17 16 15 14 13 12 11 10 9	PB PCM IN 00 PB PCM IN 00 PB SYNC 9M OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H:PCM PB/EE IN RC PCM CARRIER IN 00 ANALOG-GNB-I REC PCM RF IN 00 REC PCM RF IN 00 REC ATF IN 00 REC ATF IN 00 REC ATF IN 00 PCM AREA IN H: VI9EO NDR/E0IT APE 6 DIRECTION F/R OUB FRAMING PULSE IN	602-27A 128-14 601-23A 607-11A 601-23A 607-11A 601-29A 601-29A 601-10B 601-10B 129-15 129-14 606-27B 606-27B 606-22A 608-22A 609-12A 124-13 601-18A 115-6 607-21B 607-21B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/EE REC PCM CARRIER (X) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (X) REC ATF (G) PCM AREA VIDEO NOR/E017 TAPE 0IRECTION 0 FRANING P	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-9 . 315-10 . 315-11 . 315-12 . 315-13 . 315-15 . 315-16 . 315-17 . 315-18 . 315-18 . 315-19 . 315-19 . 315-10 . 315-10 . 315-10 . 315-10 . 315-10 . 315-10 . 315-10	23 22 21 20 19 18 17 16 15 14 13 12 11 10 9	PB PCM IN 00 PB PCM IN 00 PB PCM IN 00 PB SYNC DM OUT 00 MO REC SWP IN 00 PCM RF AREA OUT H:PCM PBZE IN REC PCM CARRIER IN 00 REC PCM CARRIER IN 00 ANALOG-GNB-1 REC PCM RF IN 00 REC ATF IN 00 REC ATF IN 00 REC ATF IN 00 PCM AREA IN H: VIBEO NOR-ZEDIT TAPE BIRECTION F/R OUB FRAMING PULSE IN H: BET OUT	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B 129-14 606-27B 606-27B 606-22A 608-22A 609-12A 124-13 601-10B 115-6 607-21B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/EE REC PCM CARRIER (G) REC PCM CARRIER (X) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (G) PCM AREA VIOED NOR/EDIT TAPE 01RECTION B FRAMING P HIE DET	1. 1. 1. 1./ 1./ 1./ 1./ 1./ 1./
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8	23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7	PB PCM IN 00 PB PCM IN 00 PB YOU IN 00 PB SYNC DM OUT 00 MD REC SWP IN 00 PCM RF AREA OUT H-PCM PEZE IN REC PCM CARRIER IN 00 ANALOG-OND-1 REC PCM RF IN 00 REC PCM RF IN 00 REC PCM RF IN (6) REC ATF IN 00 REC ATF IN (6) PCM AREA IN H-V19EO NOR/E6)IT TAPE #JIRECTION F/R OUS FRAMING PULSE IN H-E OET OUT PB/EE SWP OUT CO	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B 129-14 606-27B 606-27B 606-22A 608-22A 609-12A 124-13 601-18A 115-6 607-21B 607-21B 607-26A 612-6A 602-9B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/FE REC PCM CARRIER (X) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (X) REC ATF (G) PCM AREA VIBEO NOR/EDIT TAPE DIRECTION D FRAMING P H:E GET PD/FE SWP (X)	1. 1. 1. 1./ 1./ 1./ 1./ 1./ 1./
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-10 . 315-11 . 315-12 . 315-13 . 315-14 . 315-15 . 315-16 . 315-16 . 315-16 . 315-17 . 315-18 . 315-18 . 315-19 . 315-20 . 315-21	23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7	PB PCM IN 00 PB PCM IN 00 PB SYNC DM OUT 00 MB REC SWP IN 00 PCM RF AREA OUT H-PCM PB/EE IN REC PCM CARRIER IN 00 ANALOG-ENB-1 REC PCM RF IN 00 REC AFF IN 00 REC AFF IN 00 REC AFF IN 00 REC AFF IN 00 PCM AREA IN H: V18EO NOR/EÐ17 TAPE 01RECTION F/R 9UB FRAMING PUSE IN H:E DET OUT PB/EE SWP OUT 00 H:PCM REC MUTE IN FIELB 80C INH IN	602-27A 128-14 601-23A 607-11A 601-23A 607-11A 601-29A 601-29A 601-18 601-10B 601-10B 7-2 129-15 129-15 606-27B 606-27B 606-27A 606-27B 607-26A 612-6A 607-26A 612-6A	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/FE REC PCM CARRIER (X) REC PCM CARRIER (X) REC PCM RF (X) REC PCM RF (X) REC ATF (G) PCM AREA VIBEO NOR/EDIT TAPE DIRECTION D FRAMING P H:E GET PD/FE SWP (X)	-
T. 315-4 T. 315-5 T. 315-6 T. 315-7 T. 315-8 T. 315-10 . 315-11 . 315-12 . 315-14 . 315-15 . 315-15 . 315-16 . 315-17 . 315-18 . 315-19 . 315-20 . 315-21	23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6	PB PCM IN GO PB PCM IN GO PB SYNC BM OUT DO MO REC SWP IN DO PCM RE AREA OUT H:PCM PEZEE IN REC PCM CARRIER IN GO REC PCM CARRIER IN GO REC PCM RE IN DO ANALIGE-GNO-1 REC PCM RE IN DO REC ATF IN GO REC ATF IN GO PCM AREA IN H: V19EO NORZ-EDIT TAPE #01RECTION F/R OUB FRAMING PULSE IN H: DET OUT PBZEE SWP OUT CO H:PCM REC MUTE IN	602-27A 128-14 601-23A 607-11A 605-15A 601-29A 602-6B 601-11B 601-10B 129-14 606-27B 606-27B 606-22A 608-22A 609-12A 124-13 601-18A 115-6 607-21B 607-21B 607-26A 612-6A 602-9B	PB PCM (X) PB PCM (G) PB SYNC 0M (X) M0 REC SWP (X) PCM RF AREA H:PCM PB/FE REC PCM CARRIER (G) REC PCM CARRIER (X) REC PCM CARRIER (X) REC PCM RF (X) REC ATF (G) PCM AREA VIDEO NOR/EDIT TAPE DIRECTION 0 FRAMING P H:E 0ET PD/CE SWP (X) PCM REC MUTE	1. 1. 1. 1./ 1./ 1./ 1./ 1./ 2./ 2./ 1./ 1./ 2./ 1./ 2./ 1./ 2./ 1./ 2./ 1./ 2./ 1./ 1./ 2./ 1./ 1./ 1./ 1./ 1./ 1./ 1./ 1./ 1./ 1

					:N6C	(AU-157AP)
				В		Α .
				Ð I G I GNÐ	30	Ð1G1-GNÐ
(1/2)	L:SCK	133-6	,,, <u>,</u>	L:SCK OUT	29	PCM RF AREA OUT
(1/2	MS1	133-5		MSI DUT	28	
(1/2	MSO	133-4	-	MSO IN	27	
1/2 L	:PCC CS	133-3		L:PCC CS IN	26	
<del></del>	: IÐM CS	133-2		L:10M CS IN	25	
	AMP (G)	129-8		RAMP OUT (G)	24	
	AMP (X)	129-7		RAMP OUT (X)	23	
	NIII (A)	'		TARIF GOT (A)	22	
1/2 P	CM AREA	135-11		DOM ADOL OUT	21	J-AUÐIO SERIAL IN
1/2	LM AREA			PCM AREA OUT	-	J-AUÐIO CLOCK IN
					20	
		134-25			19	
	SW PULSE	134-26		M RF SW PULSE IN	-	TAPE DIRECTION FAR
	CONTROL SW	134-17		RF CONTROL SW PULSE IN	17	
1/2	SREF.P	134-22, 128-4		S REF PULSE IN	16	
1.2 PB	PCM SWP	134-19		PB PCM SWP IN	15	PCM PB/REC IN
1/2 PB 5	REF PULSE	134-13	· · · · · ·	PB SREF PULSE IN	14	PCM AFREC IN
					13	
					12	H:PCM MUTE OUT
1/2 REC PO	M CARRIER (G)	135-18		REC PCM CARRIER OUT (G)	11	
1/2 REC PC	M CARRIER (X)	135-17		REC PCM CARRIER OUT (X)	10	SP/LP OUT
				ÐIGI-GNÐ	9	ĐIGI-GNĐ
			<i>h</i>	REG -9V-1 IN	8	REG -9V-1 IN
			-9v •	REG -9V-1 IN	7	REG -9V-1 IN
				REG -5V-1 IN	6	REG -5V-1 IN
			-5v	REG -5V-1 IN	5	REG -5V-1 IN
			3, 0	ÐIGI-GNÐ	4	ĐIGI-GNĐ
			,,		3	
			_	Ð1G1-GNÐ		ĐIGI-GNĐ
			5 V O	REG +5V-1 IN	2	REG +5V-1 IN
			3,0	REG +5V-1 IN	<u> </u>	REG +5V-1 IN
				C	N60	2 (AU-157AP)
				В		А
			9∨ ♦ • •	REG +9V-1 IN	30	REG +9V-1 IN
			L.	REG +9V-1 IN	29	REG +9V-1 IN
		171 0			28	
1/2 1	:RESET	131-2		L:RESET IN	27	PB PCM IN (G)
					26	PB PCM IN (X)
					25	GNĐ
					24	

	1	14-7	0140	
131-6		24		]
(1/2 REC S.REF PULSE)	REC S.REF PULSE IN	23	G1Ð1-GNÐ	
131-8		22		]
(1/2 EDIT CTL ) 131 0	EÐIT CTL OUT	21	PB PCM AREA OUT	-
132-3		20		
1/2 PCM2 AFR PB/EE 132-4	PCM2 AFR PB/EE IN	19	ATF LOCK IN	]+-
(1/2 PCM1 AFR PB/EE )	PCMI AFR PB/EE IN	18		
		17	H:TC WRITE IN	-
134-8		16		]
(1/2 H:PCM MUTE	H:PCM MUTE IN	15	CH2 PCM OUT (G)	-
132-7		14	CH2 PCM OUT (X)	-
(1/2   H:ME/MP	H;ME/MP	13		
609-22A, 128-3 132-11, 606-27A, 608-27A		12	CH1 PCM OUT (G)	-
(1/2 H; E/L ) 132 11 808 274, 80A-274	H;E/Ū	11	CH1 PCM OUT (X)	_
135-5		10		
(1/2 PCM REC MUTE )	H;PCM REC MUTE IN	9	CH2 PCM IN (G)	-
		8	CH2 PCM IN (X)	-
135-19		7		1
(1/2 H:PCM PB/EE ) 133 13	H:PCM PB/EE IN	6	CHI PCM IN (G)	-
		5	CH1 PCM IN (X)	-
		4		1
<u> </u>	ANALOG-GNÐ-1	3	ANALOG-GND-1	上
<del>***</del> -2*********************************	ANAL OG-GNÐ-1	2	ANALOG-GND-1	1
<i>m</i> *		ı		_

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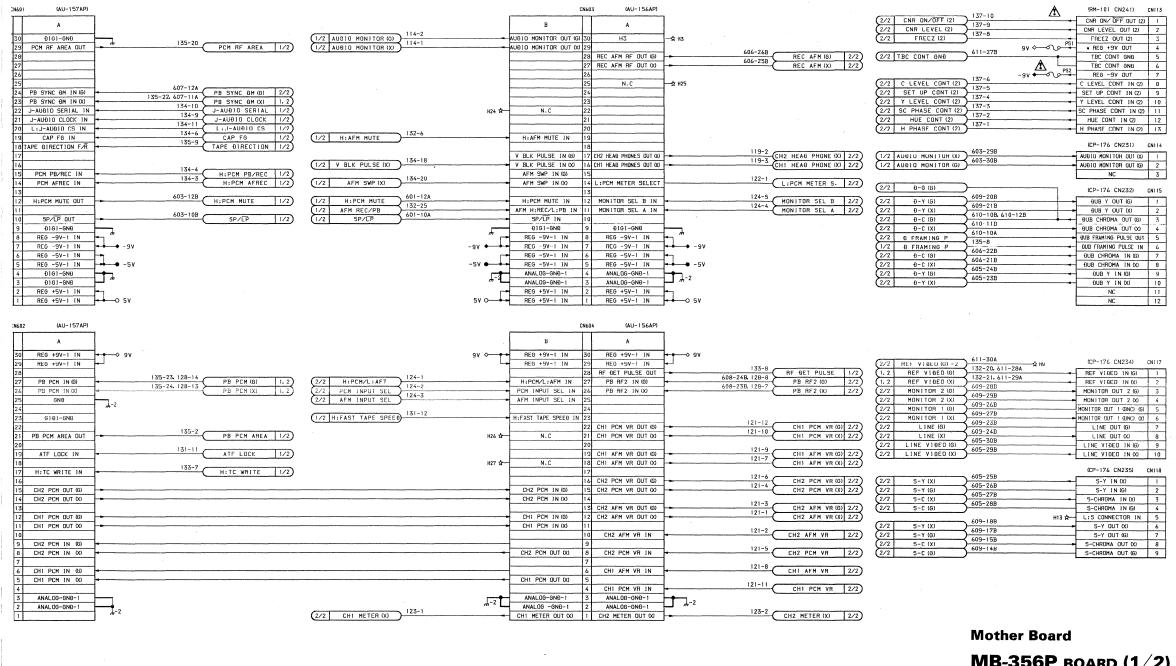
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MB-356P BOARD (1/2)

BOARD NO. 1-642-955-13 EVO-9850P (EK): #10001-

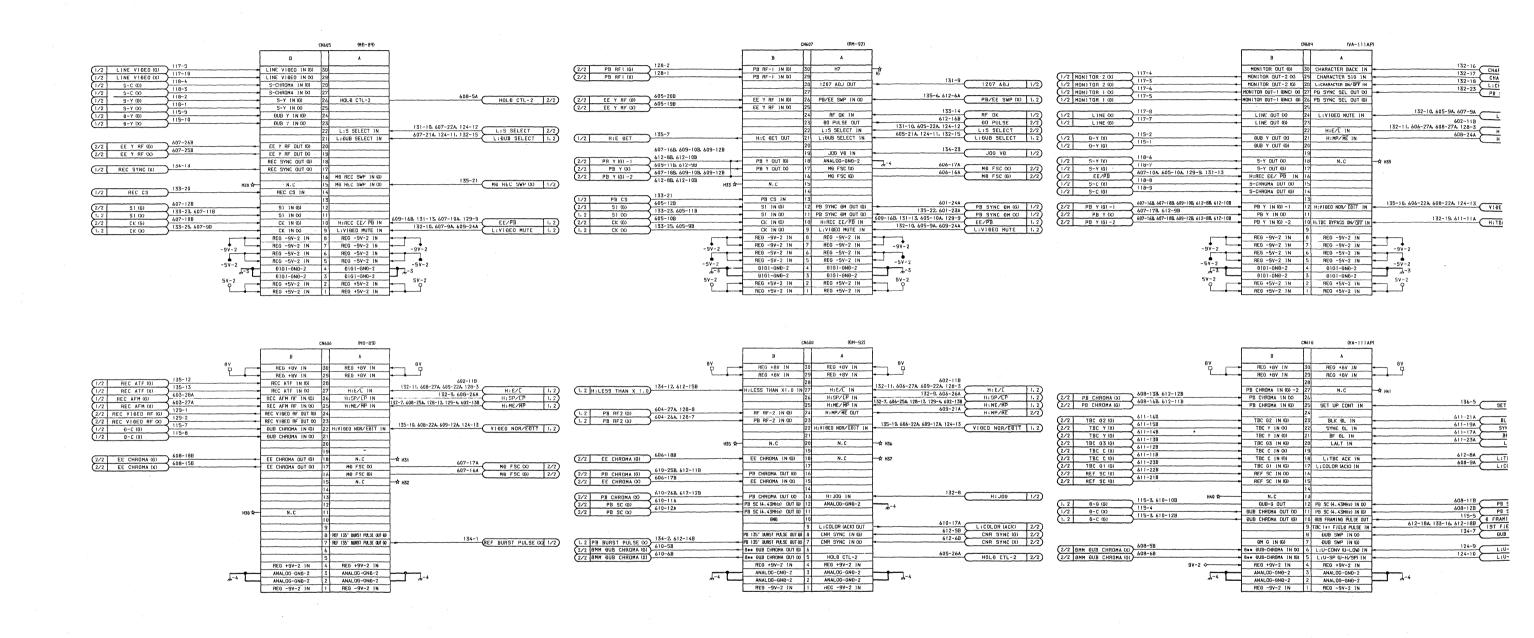
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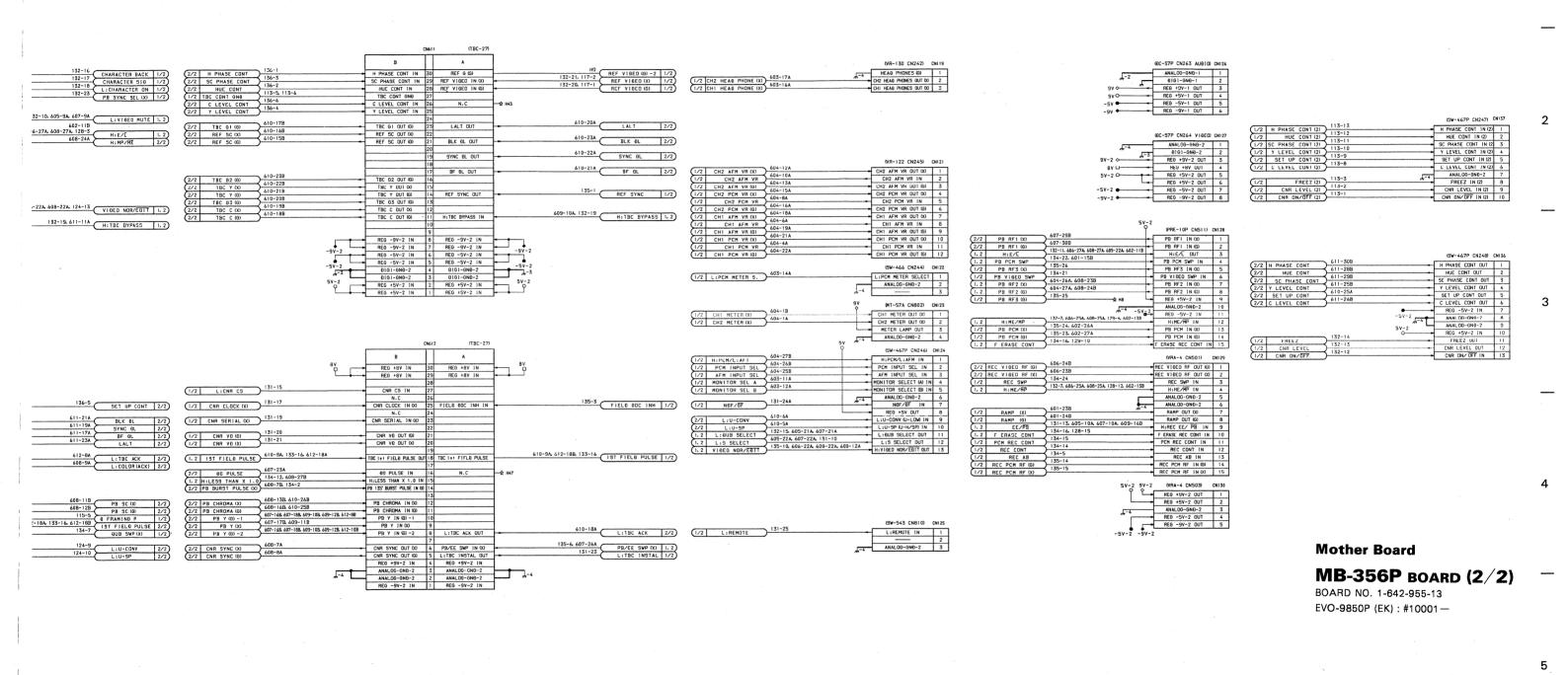
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MB-356P (2/2)

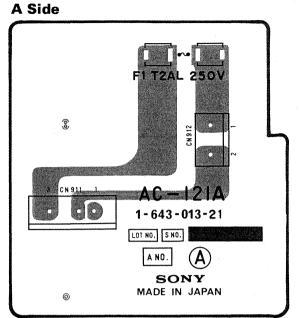


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# AC-121AP BOARD

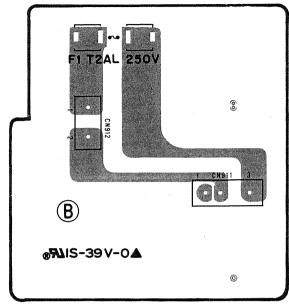


1-643-013-21 A SIDE

A Side is the same as Component Side

#### AC-121AP BOARD

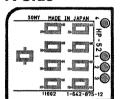
B Side



1-643-013-21 B SIDE

B Side is the same as Soldering Side

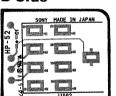
#### HP-52 BOARD A Side



1-642-875-21 A SIDE

A Side is the same as Component Side

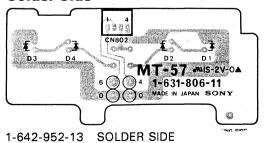
# **HP-52** BOARD B Side



1-642-875-21 B SIDE

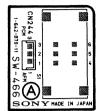
B Side is the same as Soldering Side

# MT-57A BOARD Solder Side



SW-466 BOARD

A Side

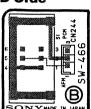


1-642-870-11 A SIDE

A Side is the same as Component Side

#### **SW-466 BOARD**

**B** Side



1-642-870-11 B SIDE

B Side is the same as Soldering Side

#### VR-122 BOARD

A Side

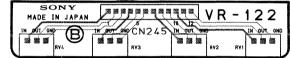
VR-122 1-642-873-11	*****	SONY MADE IN JAPAN
GND OUT IN A NO. GND	12 10 5 1 OUT IN CN245 GNO OUT IN	GNO OUT IN
RV1 RV2	RV3	RV4

1-642-873-11 A SIDE

A Side is the same as Component Side

# VR-122 BOARD

**B** Side



1-642-873-11 B SIDE

B Side is the same as Soldering Side

#### VR-130 BOARD A Side



1-642-874-11 A SIDE

A Side is the same as Component Side

#### VR-130 BOARD B Side

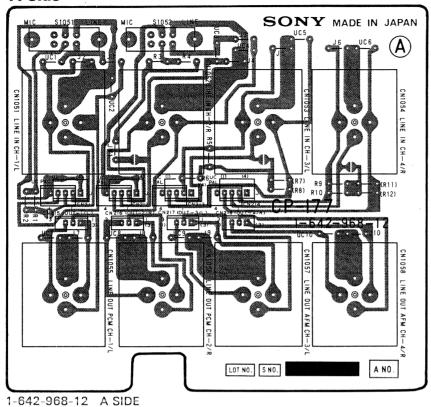


1-642-874-11 B SIDE

B Side is the same as Soldering Side

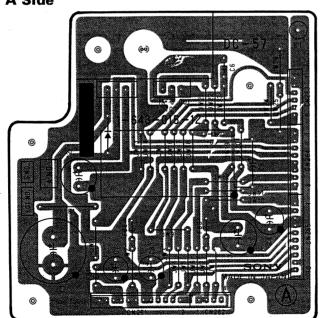
### CP-177 BOARD

A Side



A Side is the same as Component Side

#### DC-57P BOARD A Side

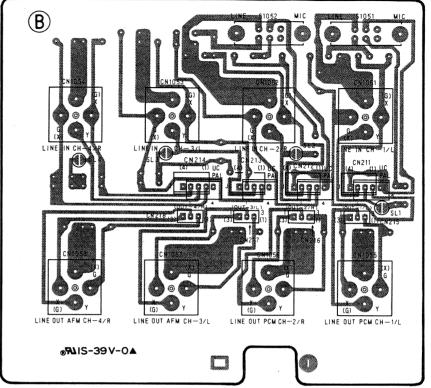


1-643-015-12 A SIDE

A Side is the same as Component Side

# CP-177 BOARD

B Side

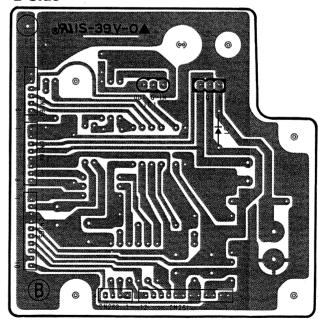


1-642-968-12 B SIDE

B Side is the same as Soldering Side

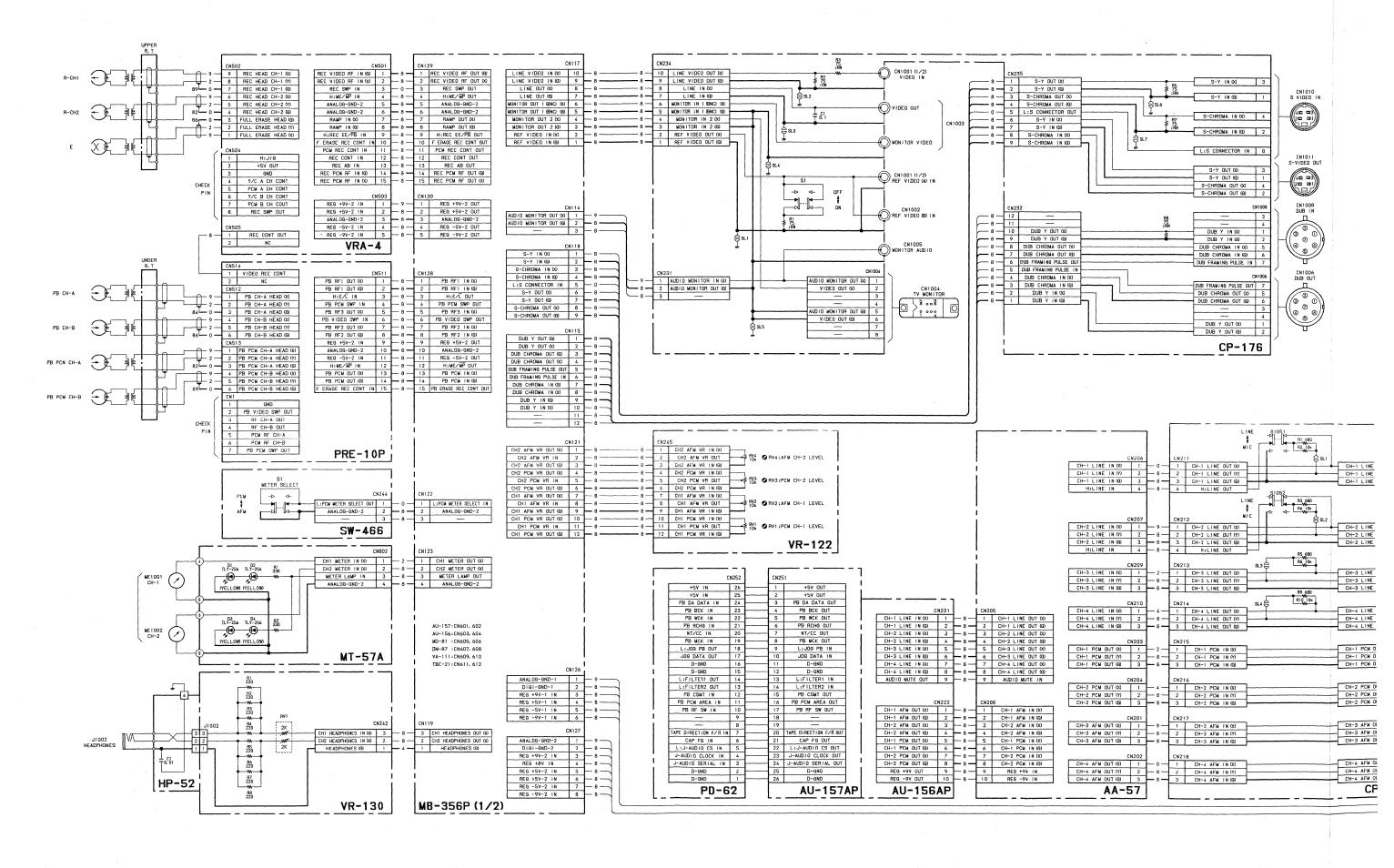
# DC-57P BOARD

B Side



1-643-015-12 B SIDE

B Side is the same as Soldering Side



13-77

13-77 F

D

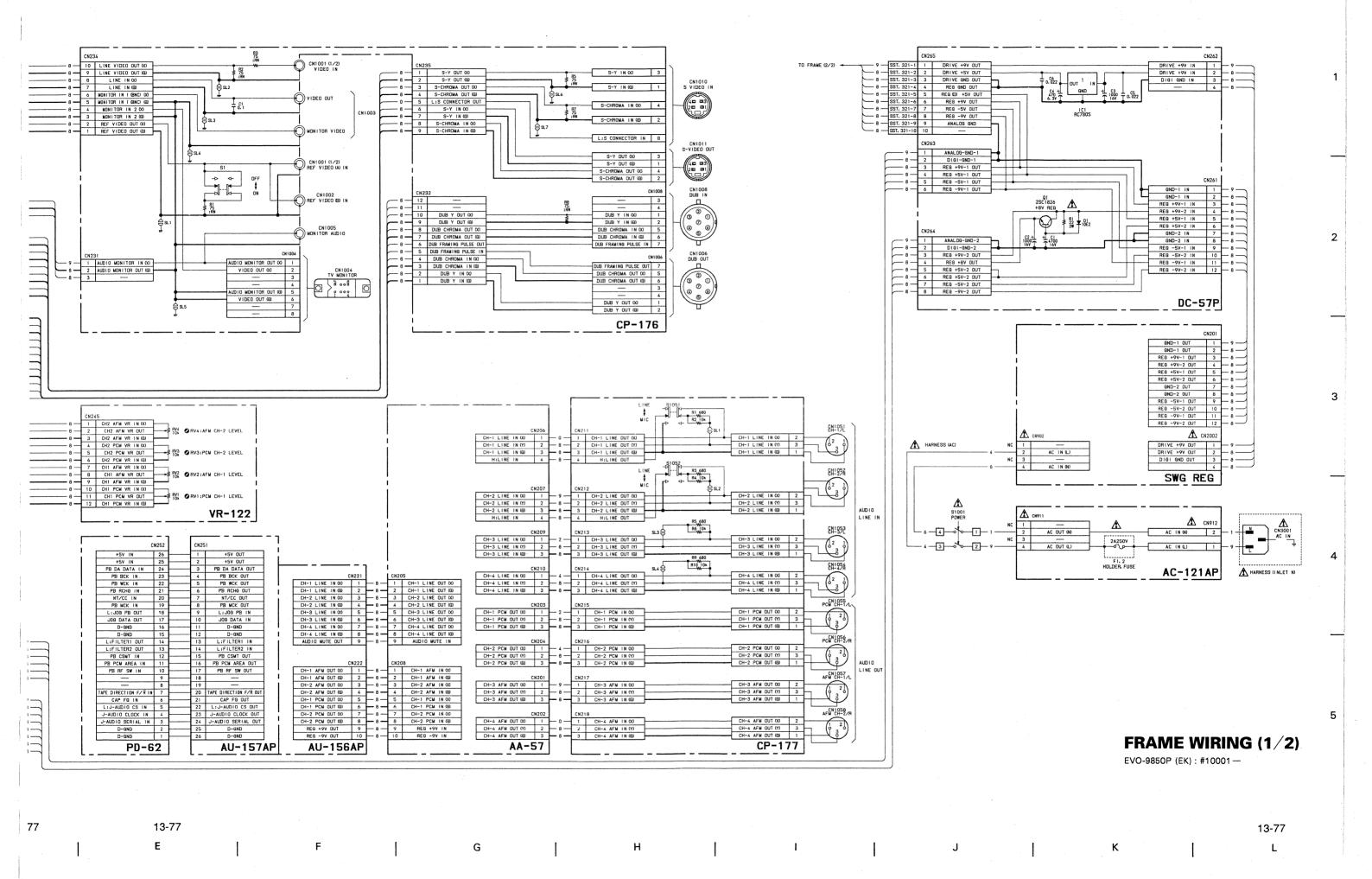
С

1

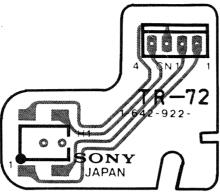
G

.

Н

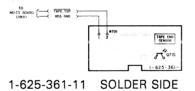


# TR-72 BOARD Component Side

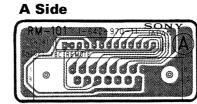


1-642-922-12 COMPONENT SIDE

# TS-74 BOARD Solder Side



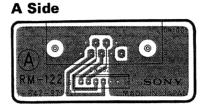
# RM-101 BOARD



1-642-970-11 A SIDE

A Side is the same as Component Side

# RM-122 BOARD

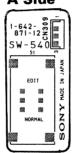


1-642-971-11 A SIDE

A Side is the same as Component Side

## SW-540 BOARD

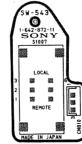




1-642-871-11, 12 A SIDE

A Side is the same as Component Side

## SW-543 BOARD A Side

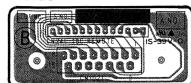


1-642-871-11 A SIDE

A Side is the same as Component Side

# RM-101 BOARD

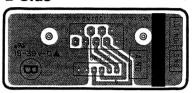
**B** Side



1-642-970-11 B SIDE

B Side is the same as Soldering Side

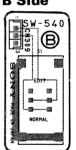
#### RM-122 BOARD B Side



1-642-971-11 B SIDE

B Side is the same as Soldering Side

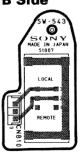
## SW-540 BOARD B Side



1-642-871-11, 12 B SIDE

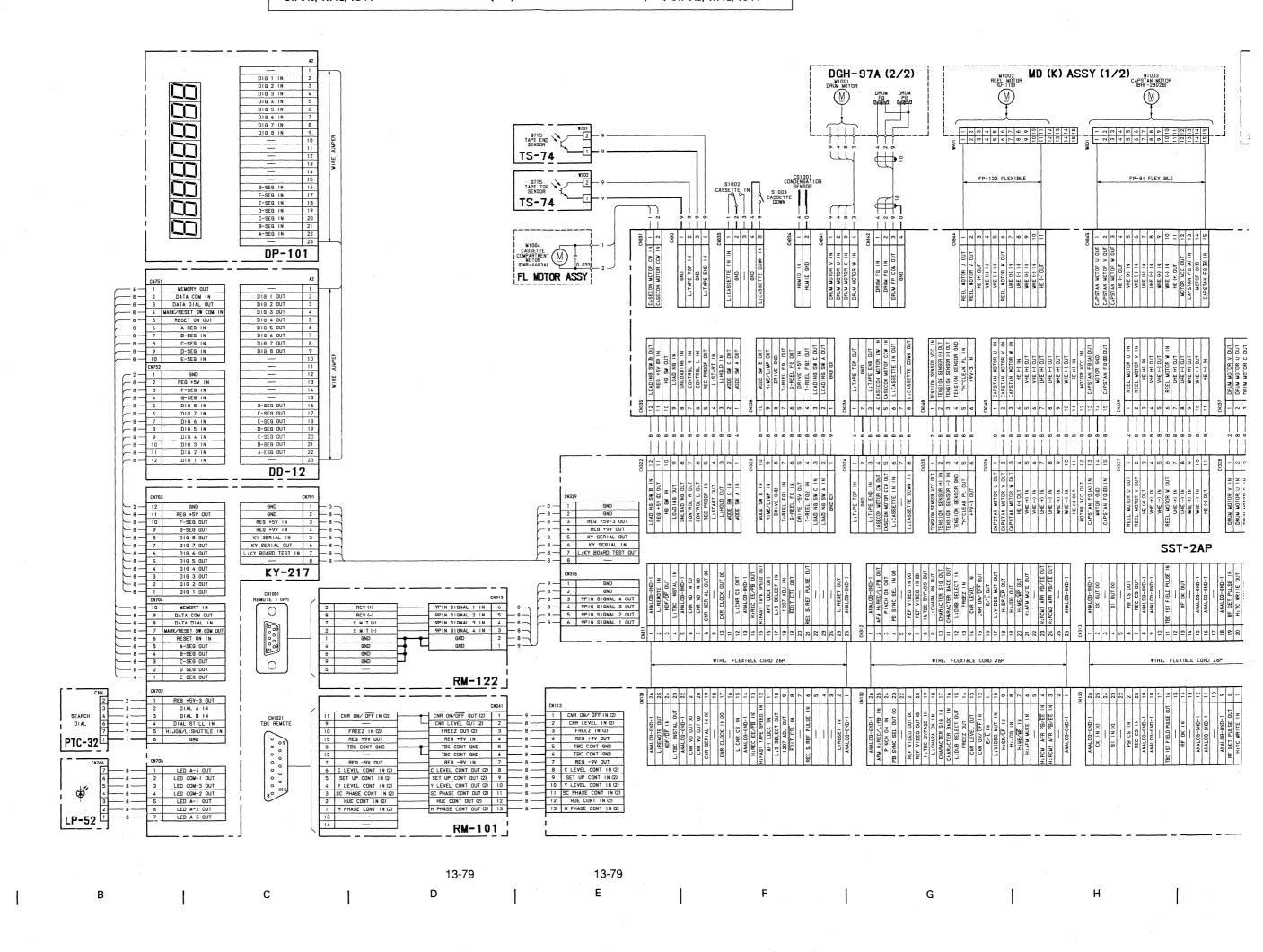
B Side is the same as Soldering Side

#### SW-543 BOARD B Side

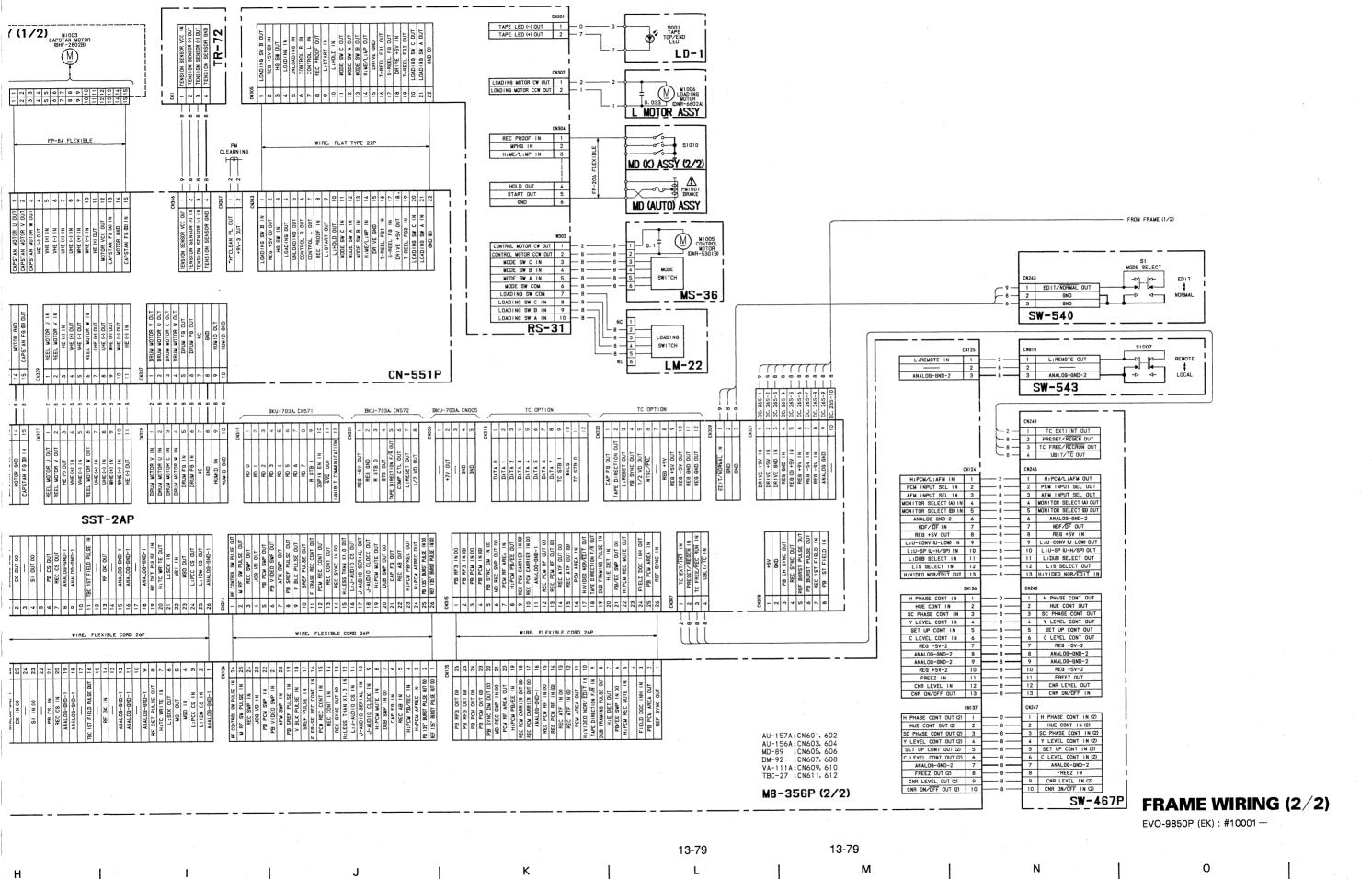


1-642-871-11 B SIDE

B Side is the same as Soldering Side



Α



# SECTION 14 SPARE PARTS AND FIXTURES

#### 14-1. PARTS INFORMATION

- (1) Components marked with ⚠ on the exploded views and electrical spare list are critical to safe operation. Replace these components with Sony Parts whose part numbers appear in this manual or in service manual supplements published by Sony.
- (2) Replacement Parts supplied from Sony Parts Center will sometimes have a different shape from the original parts. This is due to improved parts and/ or engineering changes or standardization of genuine parts.

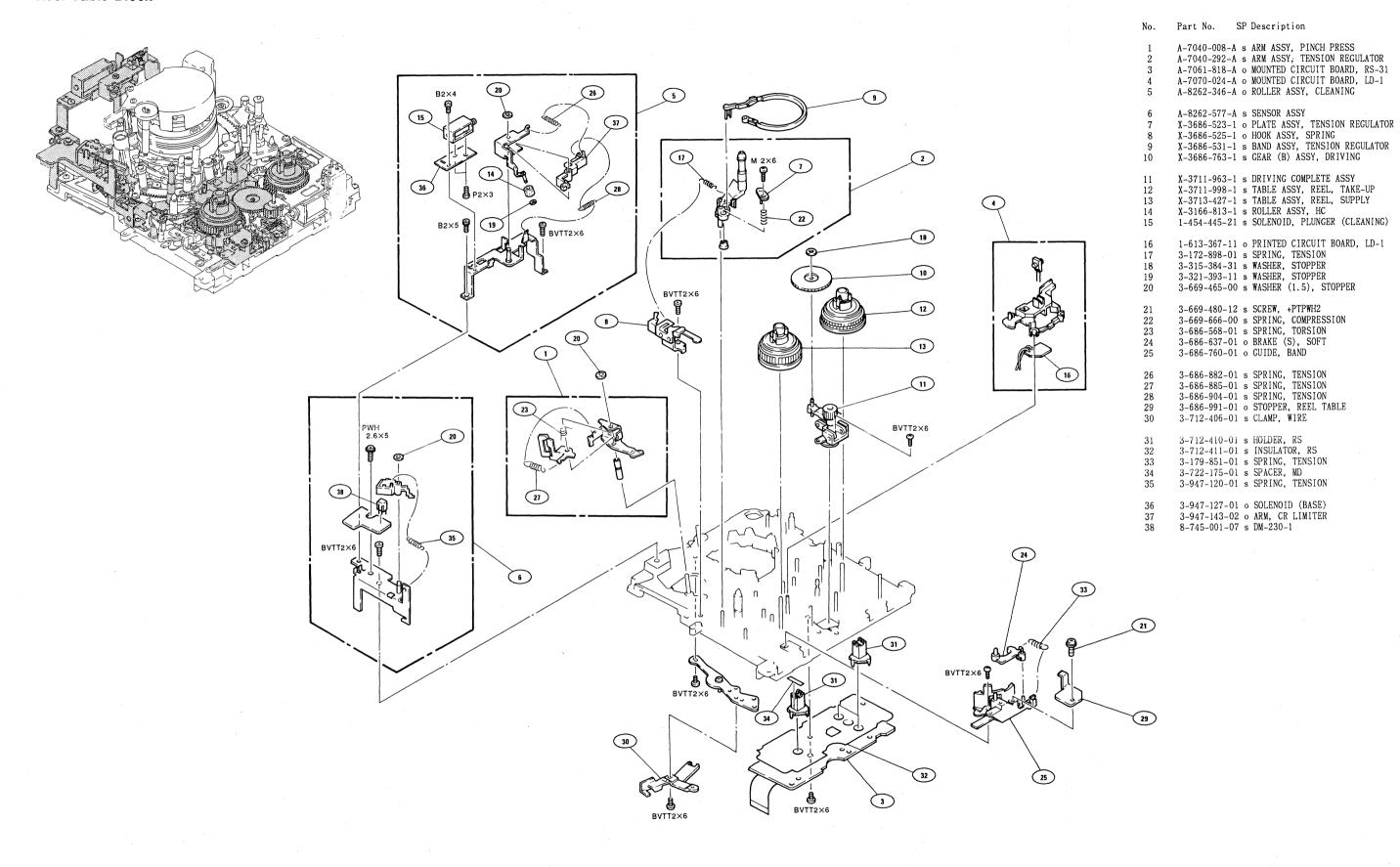
This manual's exploded views and electrical spare parts list indicate the part numbers of **the standardized genuine parts at the present**. Regarding engineering part changes by the engineering department, refer to Sony service bulletins and service manual supplements.

- (3) The parts marked with **s** in the SP (Supply Code) column of the exploded views and electrical spare parts lists are normally stocked for replacement purposes. The parts marked with **0** in the SP column are not normally required for routine service work. Orders for parts marked with **0** will be processed, but allow for additional delivery time.
- (4) Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- (5) All resistors are in ohms.

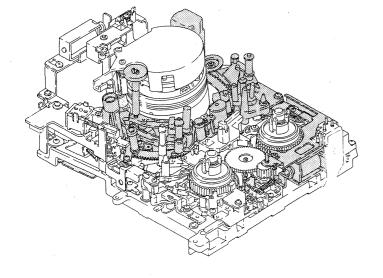
# 14-2. EXPLODED VIEWS

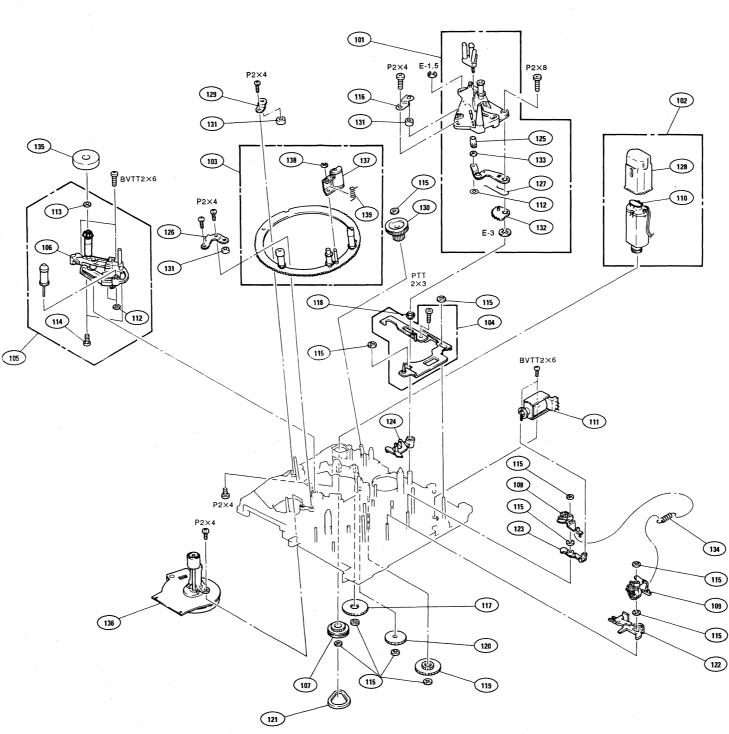
• ]	Exploded views are composed of the following blocks.	
(1)	Reel Table Block	(6) Cassette-up Compartment Block (2)14-
	T Reel Table	(7) Function Control Chassis Block14-9
	S Reel Table	Function Control Panel
	Cleaning Roller Assembly	Search Dial Block
	Sensor Assembly	Search Diai Block
	Sensor Assembly	(8) Connector Panel Block14-10
(2)	Threading Ring and Tape Path Blocks 14-4	(6) Connector Paner Block
(2)	Slant Guide Block	(9) Main Shassis Block14-1
	Threading Motor	Switching Regulator
	Loading Ring	Mounted Circuit Boards
	T Main Brake	Mounted Circuit Boards
	S Main Brake	(10) Ornamental Panel Block14-12
	Capstan Motor	Top Plate
	Entrance Guide (K) Assembly	Front Panel
	Entrance Outde (K) Assembly	Key Panel
(2)	Head Drum and Threading Control Blocks 14-5	Side Plate
(3)	Head Drum	Bottom Plate
	L Slider Assembly	Window Assembly
	Tape Guides Pinch Press Lever	(11) Cond Dook Block
		(11) Card Rack Block
	L-switch Assembly	Mounted Circudt Boards
(4)	Mechanism Control Block	
	M-switch Assembly	
	T. S Brake	
	REW Brake	
	S Hard Brake	
	M. Slider	
	Reel Motor	
(5)	Cassette-up Compartment Block (1)14-7	
	FL Motor (Cassette Loading)	
	Tape TOP/END sensor	
	RF Shield Plate	

#### Reel Table Block



### Threading Ring and Tape Path Blocks





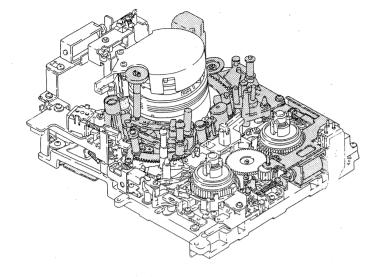
```
A-7040-001-A s GUIDE BLOCK ASSY, SLANT
101
       A-7040-065-A s MOTOR ASSY, L (THREADING)
102
       A-7040-123-A s RING ASSY, LOADING
103
104
       A-7040-199-A s SLIDER (M) BLOCK ASSY, LOCK
105
       A-7040-294-C s GUIDE (K) ASSY, ENTRANCE
106
       X-3166-287-1 s V BLOCK (K) ASSY, ENTRANCE
107
       X-3686-514-1 s GEAR ASSY, No.1
       X-3686-574-1 s BRAKE ASSY, MAIN, TAKE-UP
       X-3713-429-1 s BRAKE ASSY, MAIN, S
       1-161-057-00 s CAP, CERAMIC 0.033MFX
       1-454-377-21 s SOLENOID, PLUNGER (BLAKE)
       3-315-384-31 s WASHER, STOPPER
       3-315-414-00 s WASHER
113
       3-316-938-31 s SCREW (B1.4x4), TAPPING
       3-669-465-00 s WASHER (1.5), STOPPER
115
      3-686-503-01 o RETAINER, ROLLER
3-686-508-01 s GEAR, No.2
116
117
118
       3-686-537-01 s RETAINER, LOCK SLIDER
119
       3-686-544-01 s GEAR, No. 4
120
       3-686-545-01 s GEAR, No. 3
       3-686-546-01 s BELT, L-MOTOR
122
123
       3-686-629-01 o SLIDER, SELECTION, UPPER & LOWER
       3-686-635-01 o ARM, P
       3-686-636-04 o ARM, T, S RELEASE
       3-686-663-01 s WASHER, STOPPER, 2 GANG
       3-686-675-01 o STOPPER, RING
127
128
       3-686-701-01 s SPRING
       3-686-757-01 o CAP, SHIELD, L-MOTOR
129
       3-686-911-01 o PLATE, TOP, ROLLER
       3-697-518-01 s GEAR, No.10
130
131
       3-697-538-01 s ROLLER, RING
       3-699-509-01 s GEAR, SECTOR
132
       3-701-436-21 s WASHER, POLYEHTHYLENE
133
       3-713-560-01 s SPRING, TENSION
134
       3-722-153-01 s FLY WHEEL
135
136
       8-835-364-01 s MOTOR, DC (BHF-2802B) (CAPSTAN)
137
       X-3686-576-1 s ARM ASSY, PINCH ROLLER
       3-315-384-31 s WASHER, STOPPER (2.5)
       3-726-704-01 o SPRING, TORSION (0.29)
```

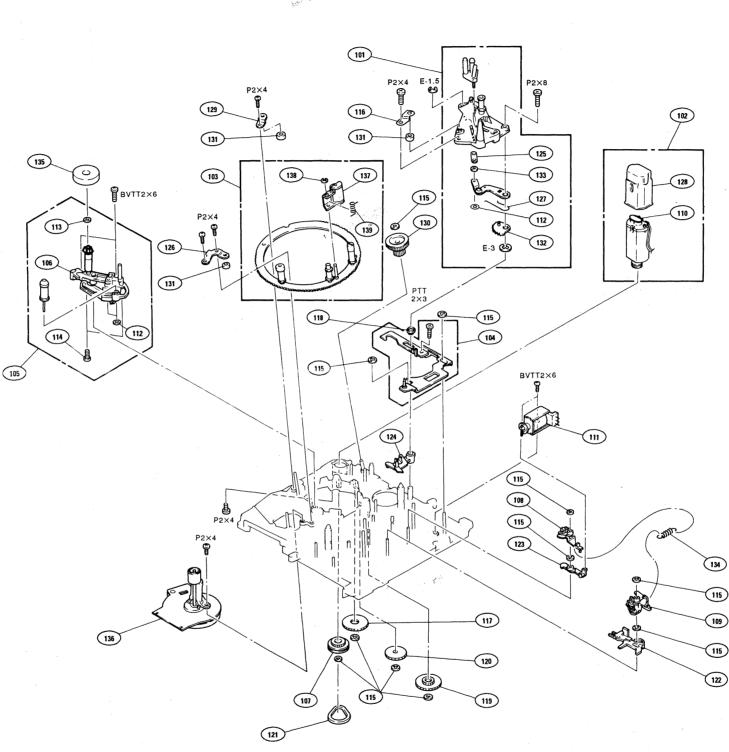
Part No. SP Description

No.

14-4

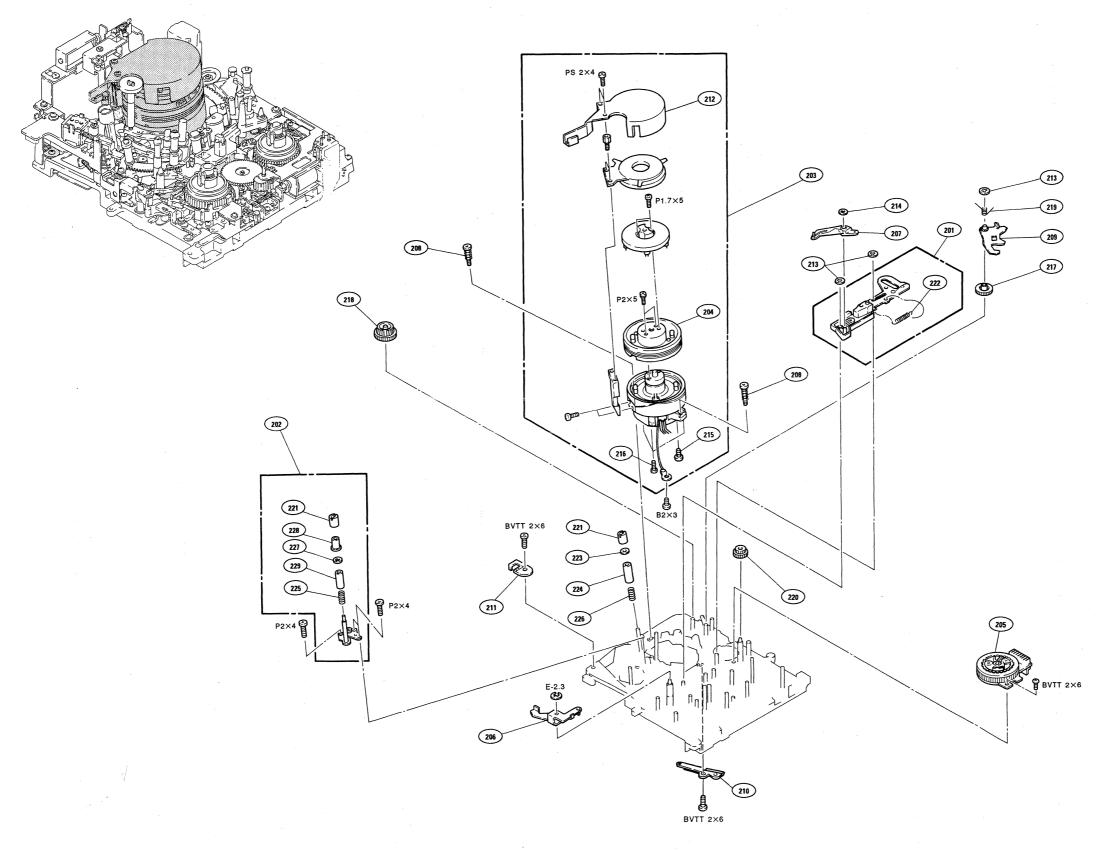
#### Threading Ring and Tape Path Blocks





Part No. SP Description A-7040-001-A s GUIDE BLOCK ASSY, SLANT A-7040-065-A s MOTOR ASSY, L (THREADING) A-7040-123-A s RING ASSY, LOADING A-7040-199-A s SLIDER (M) BLOCK ASSY, LOCK 104 A-7040-294-C s GUIDE (K) ASSY, ENTRANCE 106 X-3166-287-1 s V BLOCK (K) ASSY, ENTRANCE 107 X-3686-514-1 s GEAR ASSY, No. 1 X-3686-574-1 s BRAKE ASSY, MAIN, TAKE-UP 108 X-3713-429-1 s BRAKE ASSY, MAIN, S 1-161-057-00 s CAP, CERAMIC 0.033MFX 109 110 1-454-377-21 s SOLENOID, PLUNGER (BLAKE) 3-315-384-31 s WASHER, STOPPER 112 3-315-414-00 s WASHER 113 114 3-316-938-31 s SCREW (B1.4x4), TAPPING 3-669-465-00 s WASHER (1.5), STOPPER 3-686-503-01 o RETAINER, ROLLER 117 3-686-508-01 s GEAR, No. 2 3-686-537-01 s RETAINER, LOCK SLIDER 118 3-686-544-01 s GEAR, No.4 120 3-686-545-01 s GEAR, No.3 3-686-546-01 s BELT, L-MOTOR 3-686-629-01 o SLIDER, SELECTION, UPPER & LOWER 3-686-635-01 o ARM, P 121 122 123 124 3-686-636-04 o ARM, T, S RELEASE 3-686-663-01 s WASHER, STOPPER, 2 GANG 125 3-686-675-01 o STOPPER, RING 3-686-701-01 s SPRING 127 128 3-686-757-01 o CAP, SHIELD, L-MOTOR 3-686-911-01 o PLATE, TOP, ROLLER 3-697-518-01 s GEAR, No. 10 3-697-538-01 s ROLLER, RING 132 3-699-509-01 s GEAR, SECTOR 133 3-701-436-21 s WASHER, POLYEHTHYLENE 134 3-713-560-01 s SPRING, TENSION 3-722-153-01 s FLY WHEEL 135 8-835-364-01 s MOTOR, DC (BHF-2802B) (CAPSTAN) X-3686-576-1 s ARM ASSY, PINCH ROLLER 3-315-384-31 s WASHER, STOPPER (2.5) 136 137 138 3-726-704-01 o SPRING, TORSION (0.29)

#### **Head Drum and Threading Control Blocks**



EVO-9850P (1)

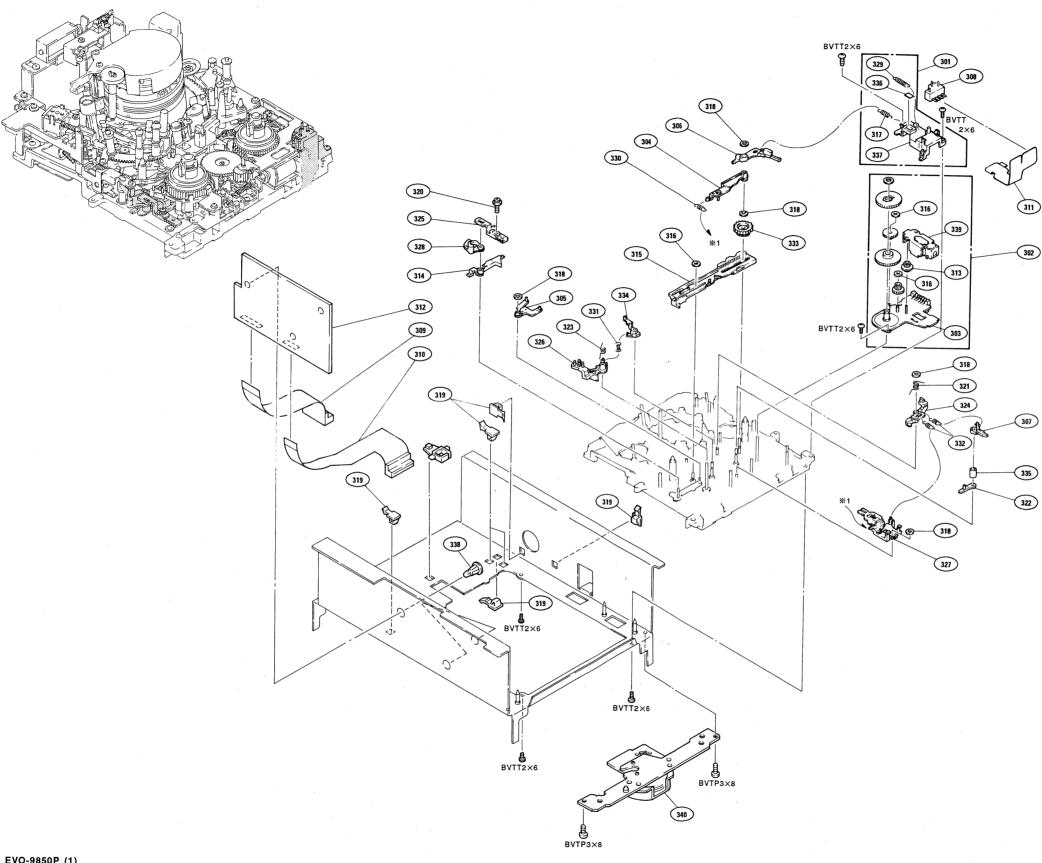
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14-5

14-5

Part No. SP Description A-7040-010-A o SLIDER ASSY, L A-7040-383-A s GUIDE BLOCK COMPLETE ASSY, #5 A-8260-641-A s DRUM ASSY (DGH-98A-R) A-8260-642-A s DRUM ASSY, UPPER, ROTARY (DGR-98-R) X-3166-289-1 s L-SW ASSY 201 202 203 204 X-3686-509-1 o LEVER ASSY, PINCH PRESS X-3686-518-3 o ARM ASSY, TENSION REGULATOR 207 208 X-3686-569-1 s SCREW ASSY, FITTING 209 X-3686-579-1 s CHANGE ASSY, DRIVE 1-535-535-11 s TERMINAL, SHAFT GROUND 1-806-682-00 s SENSOR, DEW CONDENSATION 3-176-836-01 o COVER, DRUM 211 3-315-384-31 s WASHER, STOPPER 3-686-423-01 s SCREW, FITTING, STATOR 215 3-686-458-03 s SCREW, (P1.4x3.5), TAPPING 3-686-535-01 s CEAR, No.8 3-686-539-01 s GEAR, No.9 3-686-540-01 s SPRING, TORSION 3-686-702-01 s CEAR, DRIVING, GUIDE, SLANT 3-686-724-01 s NUT, GUIDE 217 218 219 220 3-686-886-01 s SPRING, TENSION 3-686-894-02 o FLANGE, #3, #4 GUIDE 224 3-178-030-01 s GUIDE, #4 225 3-699-514-01 s SPRING, COMPRESSION 3-699-609-01 s SPRING, COMPRESSION 227 228 229 3-699-512-01 s FLANGE, No.5 CUIDE 3-699-513-01 s BOSS, No5 GUIDE 3-952-240-01 s GUIDE, No.5

#### **Mechanism Control Block**



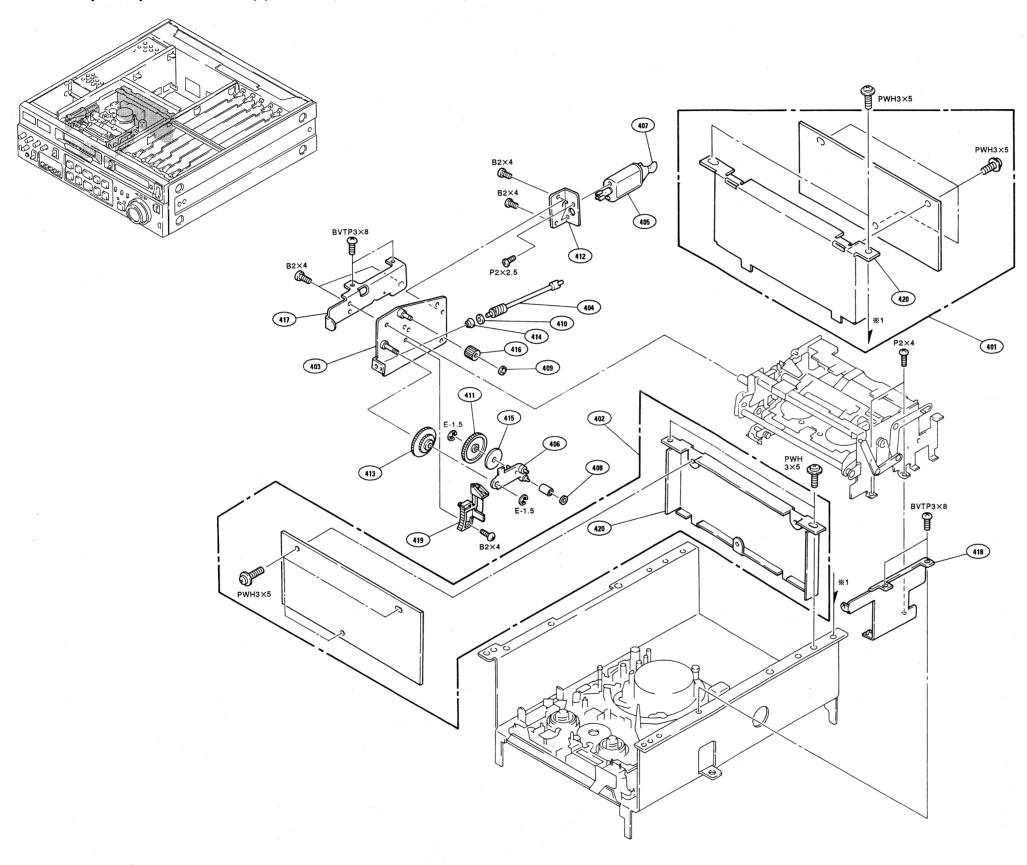
Part No. SP Description A-7040-198-A s COVER (M) ASSY, C MOTOR 302 A-7040-293-A s M-SW ASSY 303 A-7071-498-A o MOUNTED CIRCUIT BOARD, MS-36 304 X-3686-528-4 o ARM ASSY. B RELEASE 305 X-3686-530-1 o ARM (A) ASSY, SELECTION 306 X-3711-987-2 s BRAKE ASSY, T.S 307 308 309 X-3711-993-1 s BRAKE ASSY. REW 1-572-298-21 s SWITCH, PUSH (REC PROOF/MPHG/ME/MP) A-7070-624-A o FP-84 MOUNTED CIRCUIT BOARD, (FLEXIBLE)
A-7070-625-A o FP-122 MOUNTED CIRCUIT BOARD, (FLEXIBLE) 310 311 312 313 314 1-630-923-11 o FP-206 FLEXIBLE BOARD 1-642-953-14 o PRINTED CIRCUIT BOARD, CN-551P 3-172-901-01 s WHEEL, WORM 3-172-908-01 o ARM, MODE 315 3-172-909-01 s SLIDER, M 3-315-384-31 s WASHER, STOPPER 3-714-035-01 s SPRING, TENSION 3-669-465-00 s WASHER (1.5), STOPPER 316 317 318 319 3-671-150-11 o CLAMP 3-686-528-01 s SCREW (2x2.6) 321 3-686-579-01 s SPRING 322 3-686-580-01 o ARM, SET-UP 323 3-686-603-04 s SPRING 324 3-686-634-01 o ARM, RL 325 3-686-642-01 o PLATE, ADJUSTMENT, BAND 3-686-644-01 o ARM, BAND 3-686-656-01 o SLIDER, B RELEASE 326 327 328 329 330 3-686-755-01 s DISK, EJECT 3-722-110-01 s SPRING, TENSION 3-686-903-01 s SPRING, TENSION 331 332 3-686-905-02 s SPRING, TENSION 3-686-906-01 s SPRING, TENSION 3-686-909-01 s GEAR, MODE OUTPUT 333 3-686-996-01 s BRAKE (S), HARD 3-716-933-01 s SPACER, REW BRAKE 334 335 3-716-963-01 s SHOE, C MOTOR COVER 3-739-107-02 s COVER (M), C MOTOR 336 337 338 4-912-181-11 o SUPPORT, PC

8-835-138-01 s MOTOR, DC (DNR-5301B) (CONTROL)

8-835-304-11 s MOTOR, DCU-11B (REEL)

339

#### Cassette Up Compartment Block (1)

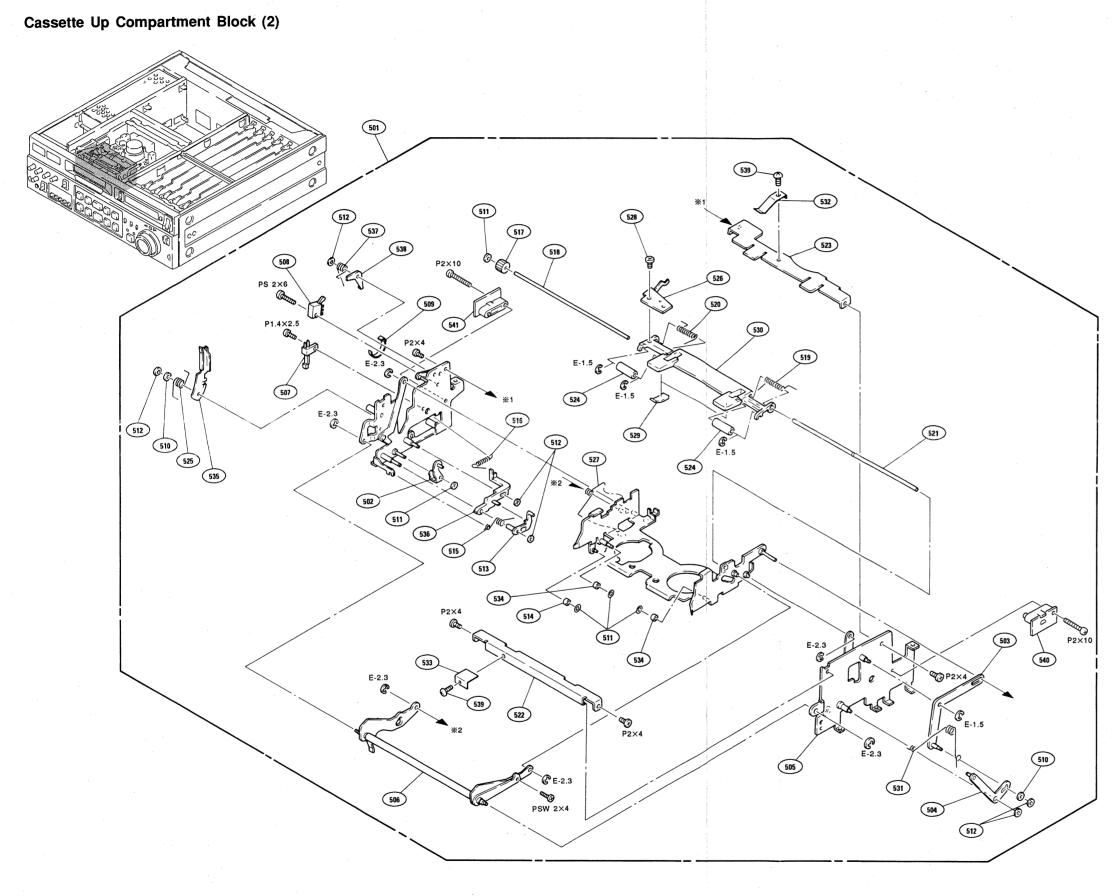


EVO-9850P (1)

14-7

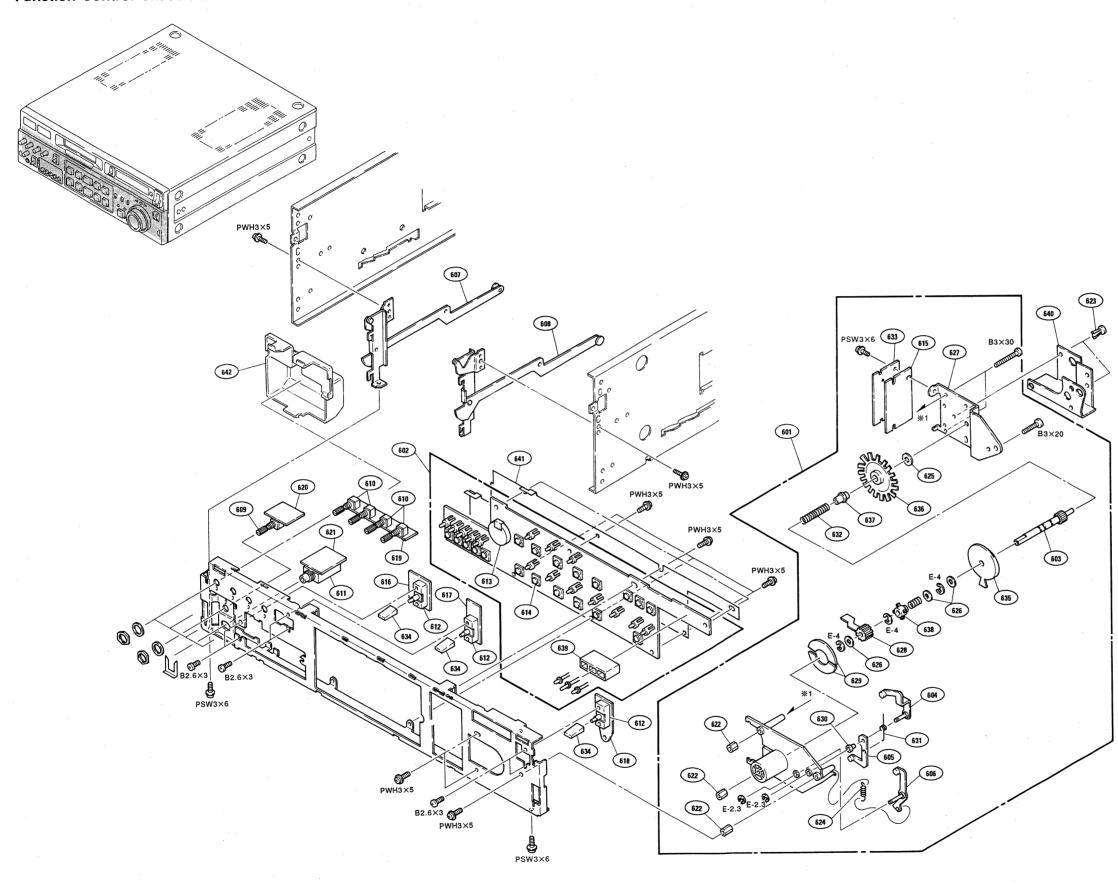
14-7

Part No. SP Description A-8275-234-A o COMPLETE PCB, VRA-4P A-8271-857-A o COMPLETE PCB, PRE-10P X-3711-934-1 o PLATE SUB ASSY BLOCK X-3711-935-3 s SHAFT ASSY, WORM X-3711-936-1 s MOTOR ASSY, FL (CASSETTE COMPARTMENT) 402 403 404 405 X-3714-193-1 s LEVER ASSY (B), GEAR 1-161-057-00 s CAP, CERAMIC 0.033MFX 3-315-414-31 s WASHER 3-669-465-00 s WASHER (1.5), STOPPER 3-701-437-11 s WASHER 406 407 408 409 410 3-713-430-01 s GEAR (B) 3-713-431-01 o BRACKET, MOTOR 411 412 413 3-713-433-01 s GEAR (A) 414 3-713-439-01 s BEARING 3-713-441-01 o SPRING, LEFT 3-713-452-01 s GEAR (C) 3-724-140-01 o BRACKET (LEFT) 3-724-141-01 o BRACKET (RIGHT) 3-724-913-03 s RACK 3-947-136-01 o PLATE SHIELD, RF



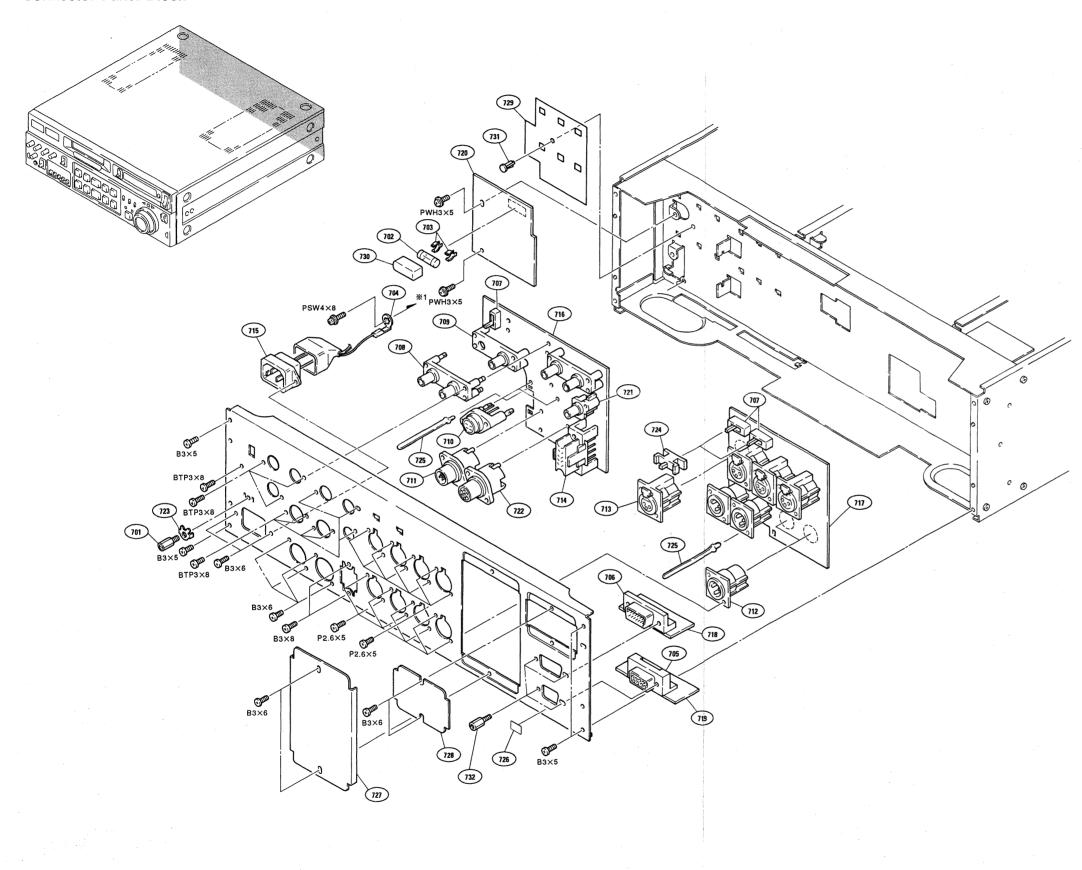
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Part No. SP Description
No.
        A-8262-783-A s CASSETTE COMPARTMENT BLOCK ASSY X-3686-541-1 o CLAW ASSY, LOCK X-3711-930-1 s LEVER ASSY, HOLDER
502
503
        X-3711-931-4 s LEVER ASSY, DOOP
X-3711-932-1 o PLATE (A) ASSY, SIDE
504
        X-3711-937-1 o JOINT ASSY
1-553-226-00 s SWITCH, LEAF
506
507
508
         1-570-407-11 s SWITCH, SLIDE
509
         3-337-402-01 o BAND, BINDING
510
        3-533-073-01 s WASHER
        3-578-265-11 s WASHER, STOPPER
3-669-465-00 s WASHER (1.5), STOPPER
511
512
513
         3-686-692-01 s PREVENTION, SLIDER
514
         3-686-693-01 o ROLLER, LOCK
515
        3-686-694-01 s SPRING, TORTION
        3-696-047-01 s SPRING, TENSION
3-713-429-01 s GEAR (D)
        3-713-440-01 o SHAFT, ROLLER
519
        3-713-442-01 s SPRING (RIGHT)
520
        3-713-445-01 s SPRING (LEFT)
521
        3-713-457-01 o SHAFT, JOINT
        3-713-458-01 o REINFORCEMENT
3-713-462-03 o STOPPER, HOLDER
522
523
524
        3-713-466-01 s ROLLER
3-713-488-01 s SPRING (2), TORSION
        3-724-912-01 s PLATE, FUNCTION, LEVER
3-713-620-01 s SPRING (1), TORSION
3-713-622-01 s SCREW (M1.3x4), TAPPING, 0
526
527
528
529
        3-713-625-01 s SHOE, BRAKE
        3-713-626-01 s COVER, MULTI
531
        3-713-628-01 s SPRING, TORSION
532
        3-713-658-01 s SPRING
        3-716-921-01 s SPRING, LEAF
533
        3-719-590-01 s ROLLER, ASSIST
        3-721-125-01 s LEVER, LOCK
        3-721-136-01 s SLIDER, LOCK
537
        3-721-163-01 s SPRING
        3-721-166-01 s LEVER, SWITCH
        3-739-116-01 s SCREW (2X3), PS
        A-7070-627-A o MOUNTED CIRCUIT BOARD, TS-74 (RIGHT)
        A-7070-628-A o MOUNTED CIRCUIT BOARD, TS-74 (LEFT)
```

#### **Function Control Chassis Block**



Part No. SP Description A-6734-238-C s DIAL BLOCK ASSY, SERCH A-8271-230-A o MOUNTED CIRCUIT BOARD, KY-217 602 X-3717-226-1 o SHAFT SUB ASSY, MAIN 603 604 X-3717-227-1 o ARM (RIGHT) ASSY, S10 605 X-3717-228-1 o ARM (LEFT) ASSY, S10 X-3717-229-1 o ARM ASSY, RETURN 607 X-3738-903-1 o HINGE (LEFT) ASSY X-3738-904-1 o HINGE (RIGHT) ASSY 609 1-237-703-11 s RES, VAR, CARBON 2k/2k 1-238-483-11 s RES, VAR, CARBON 5k 1-507-854-00 s JACK, LARGE TYPE 1-516-961-00 s SWITCH, LEVER SLIDE 612 613 1-528-229-11 o BATTERY, LITHIUM (CR-2450) 614 1-552-539-00 s SWITCH, KEY BOARD 1-622-638-11 o PRINTED CIRCUIT BOARD, PTC-32 1-642-870-11 o PRINTED CIRCUIT BOARD, SW-466 1-642-871-11 o PRINTED CIRCUIT BOARD, SW-540 616 617 1-642-872-11 o PRINTED CIRCUIT BOARD, SW-543 618 1-642-873-11 o PRINTED CIRCUIT BOARD, VR-122 1-642-874-11 o PRINTED CIRCUIT BOARD, VR-130 619 620 621 1-642-875-11 o PRINTED CIRCUIT BOARD, HP-52 622 623 2-280-622-11 o SUPPORT (M3), HEXAGON 3-531-576-01 s RIVET 624 3-639-371-00 s SPRING, TENSION 3-662-048-00 s WASHER, BRACKET 3-701-443-21 s WASHER, 5DIA. 3-717-315-01 o PLATE, BOTTOM, SD 3-717-316-03 o GUIDE, LOCK IN 3-717-317-01 o PLATE, CLUTCH 630 3-717-318-01 o BEARING, S10 3-717-319-01 o SPRING, TORSION 632 3-717-320-01 o SPRING, COMPRESSION 633 3-717-321-01 o PROTECTOR, PTC 3-717-382-01 s KNOB, LEVER SW 634 635 3-717-417-01 o CAM 3-717-418-01 o PLATE 3-717-553-01 o BEARING, SD 3-717-546-02 o GUIDE, LOCK OUT 3-718-657-01 o HOLDER, LED 636 637 638 639 640 3-718-771-01 o COVER (U), SD 3-947-152-01 o PROTECTOR, KY 3-947-147-01 o PROTECTOR, HVR 641

### **Connector Panel Block**



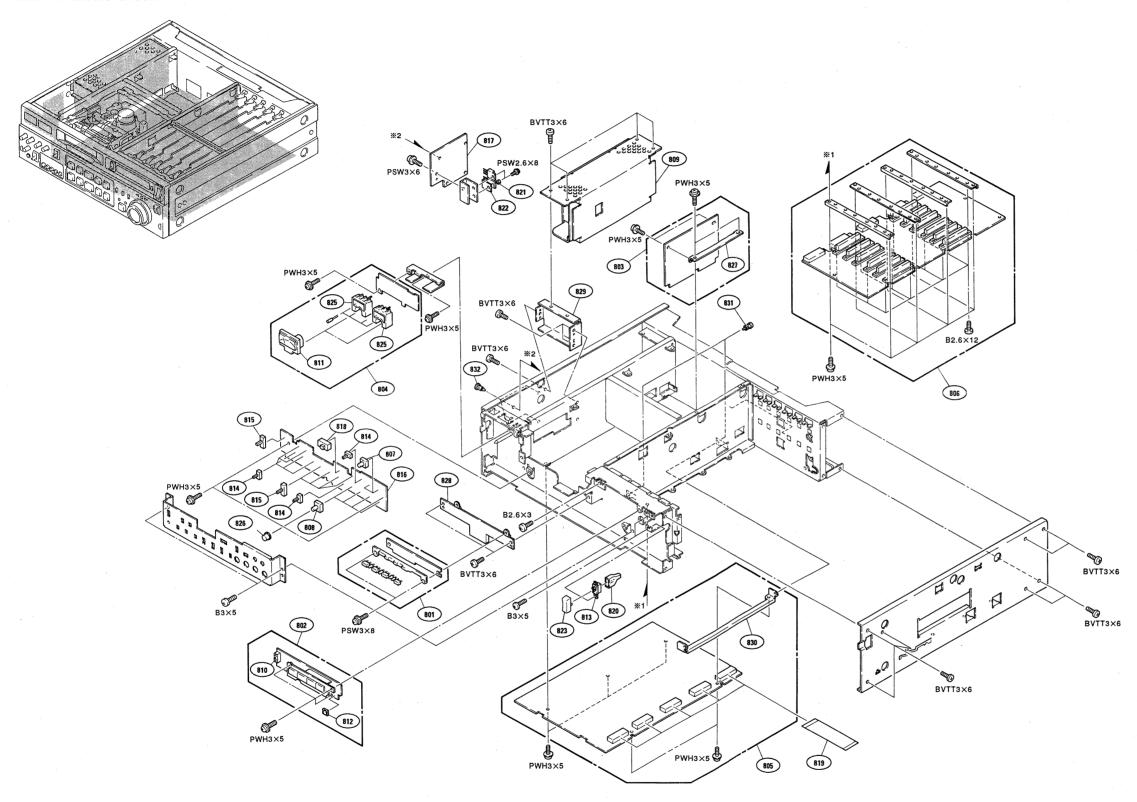
EVO-9850P (1)

703 1-533-189-11 s HOLDER, FUSE 1-535-316-11 s TERMINAL, GROUND (M4) 705 1-563-770-11 s SOCKET, D-SUB CONNECTOR 9P 1-566-319-11 o PLUG, D-SUB CONNECTOR 15P 1-570-145-11 s SWITCH, SLIDE 1-573-582-11 s CONNECTOR, BNC (RECEPTACLE) 1-573-583-11 s CONNECTOR, BNC (RECEPTACLE) 1-573-590-12 s CONNECTOR, (S) TERMINAL 4P 707 708 709 710 1-573-591-11 s CONNECTOR, (R-F) 1-573-594-11 s CONNECTOR, XLR TYPE 3P 1-573-593-11 s CONNECTOR, XLR TYPE 3P 711 712 713 714 1-573-602-11 s CONNECTOR, (DIP TYPE) 8P 715 A1-580-375-11 s INLET 3P 1-642-967-11 o PRINTED CIRCUIT BOARD, CP-176 717 1-642-968-11 o PRINTED CIRCUIT BOARD, CP-177 718 1-642-970-11 o PRINTED CIRCUIT BOARD, RM-101 719 1-642-971-11 o PRINTED CIRCUIT BOARD, RM-122 720 1-643-013-21 o PRINTED CIRCUIT BOARD, AC-121AP 721 722 723 724 725 1-691-273-11 s JACK, PIN 1P 1-695-195-11 s CONNECTOR (ROUND TYPE) 7P 2-068-008-00 s WASHER 3-171-450-01 o ADAPTOR, SW 3-683-631-01 o CLAMP 726 727 728 3-703-080-31 o LABEL (TOP), SUB CAUTION 3-733-627-01 o COVER, IF 3-947-113-01 o PANEL, TC BLANK 729 730 3-947-116-01 o INSULATOR, AC 4-601-472-00 o COVER, FUSE 731 732 4-818-403-00 s RIVET, NYLON 3-668-459-11 o SCREW, CONNECTOR

No. Part No. SP Description

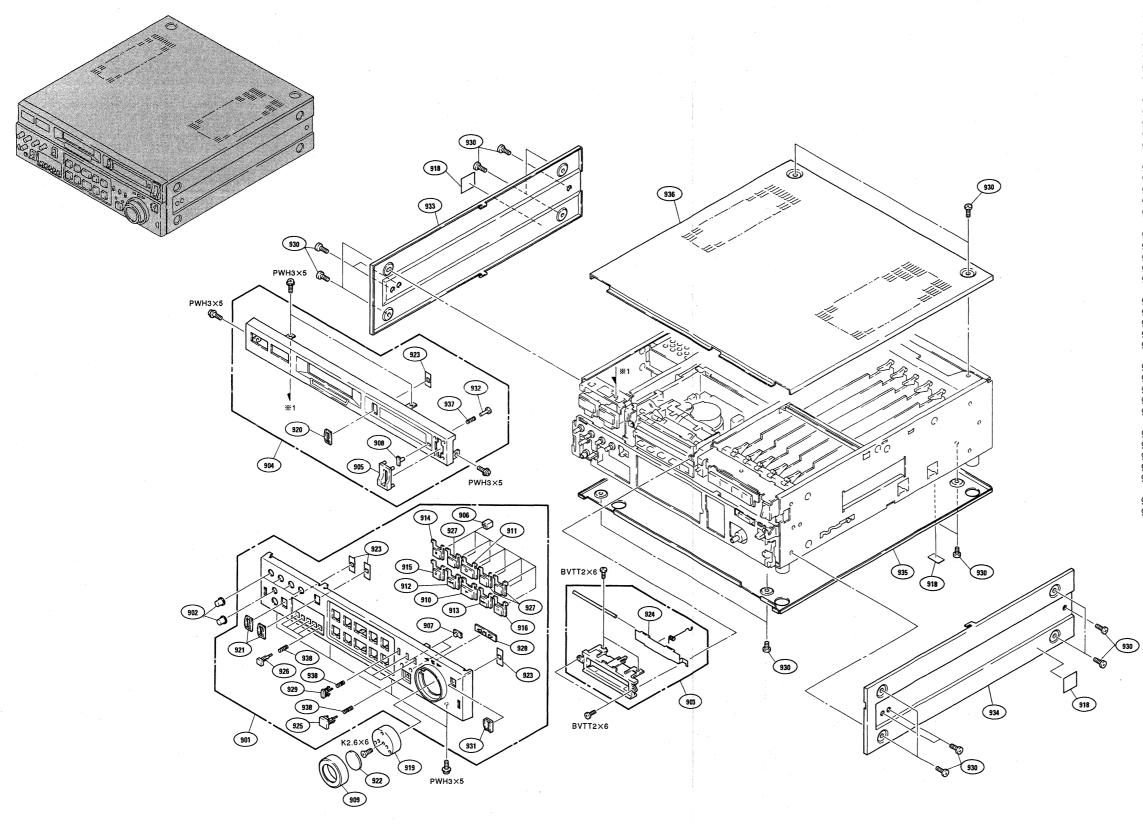
701 X-2068-004-0 s TERMINAL ASSY
702 ▲1-532-203-00 s FUSE, TIME-LAG 2A

# Main Chassis Block



No.	Part No.	SP	Description
802 803 804	A-7061-772-A A-8271-902-A A-8271-224-A	0	MOUNTED CIRCUIT BOARD, LP-52 MOUNTED CIRCUIT BOARD, DD-12 MOUNTED CIRCUIT BOARD, AA-57P MOUNTED CIRCUIT BOARD, MT-57A MOUNTED CIRCUIT BOARD, SST-2AF
806 807 808 809 810	A-8276-538-A 1-241-856-11 1-241-918-11 A1-413-820-11 1-516-995-00	s s s	MOUNTED CIRCUIT BOARD, MB-356F RES, VAR, CARBON 5k RES, VAR, CARBON 5k SWITCHING REGULATOR SWITCH, LEVER SLIDE
811 812 813	1-520-506-11 1-552-539-00 ★ 1-570-117-41	s	METER, AUDIO LEVEL SWITCH, KEY BOARD SWITCH, ROCKER (AC POWER) SWITCH, SLIDE SWITCH, SLIDE
816 817 818 819 820	1-642-952-13 1-643-015-12 1-692-077-11 1-696-147-11 2-269-962-00	0 0 s s	PRINTED CIRCUIT BOARD, SW-4671 PRINTED CIRCUIT BOARD, DC-57P SWITCH, SLIDE CORE, FLAT TYPE (26 CORE) COVER, SWITCH
821 822 823 825 826	2-371-561-00 3-334-236-01 3-688-814-01 3-738-923-01 3-947-117-01	) s . · s . · s	BUSHING (P), INSULATING INSULATOR, TO-220 CAP, SWITCH HOLDER, LED KNOB, VOL
827 828 829 830 831	3-947-125-01 3-947-131-01 3-947-132-01 3-947-144-01 4-818-403-00	0 0 0	BRACKET, AA BRACKET, LP BRACKET, SW G REG BRACKET, SST RIVET, NYLON
832	4-912-181-11	lo	SUPPORT, PC

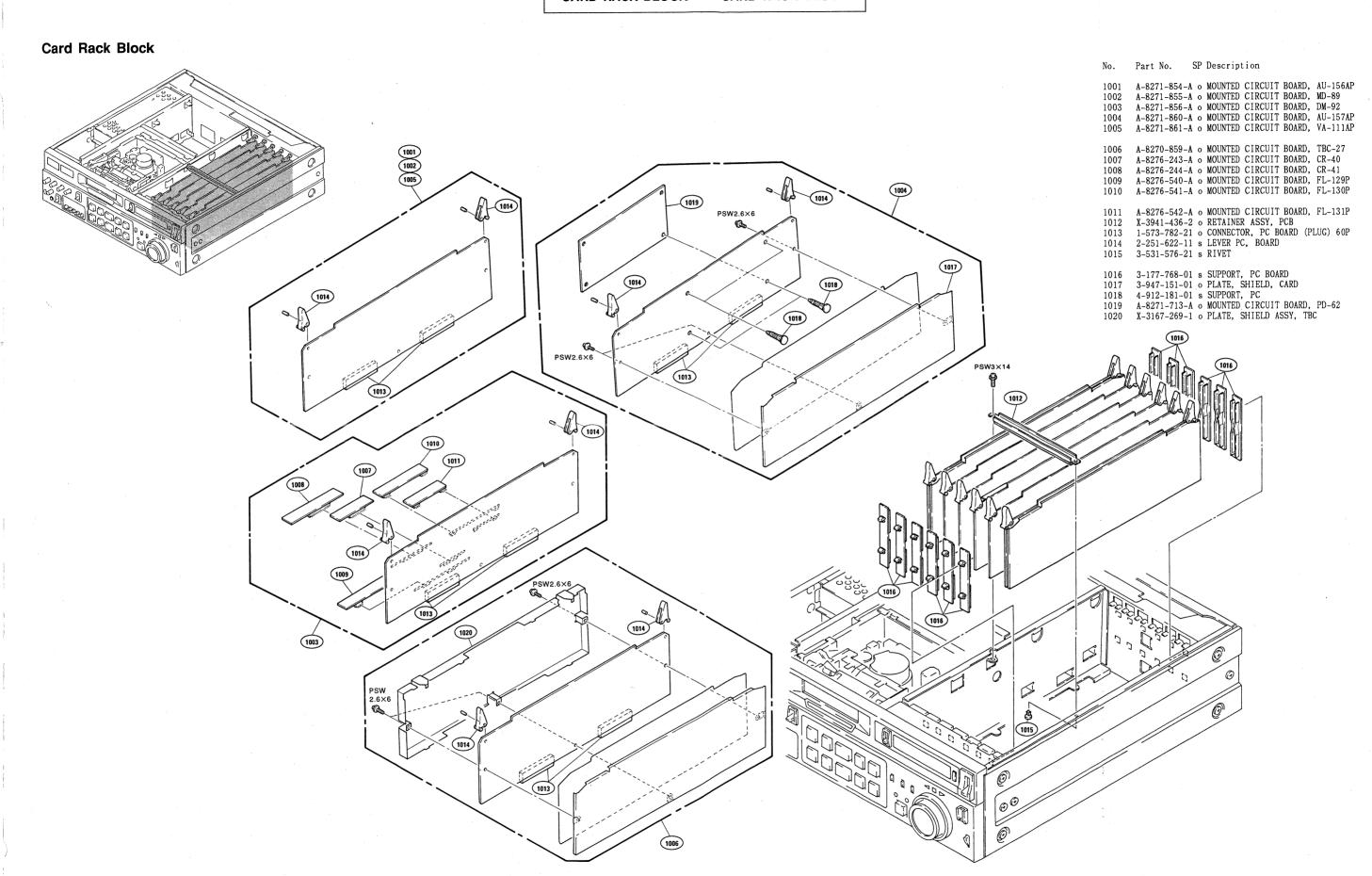
#### **Ornamental Panel Block**

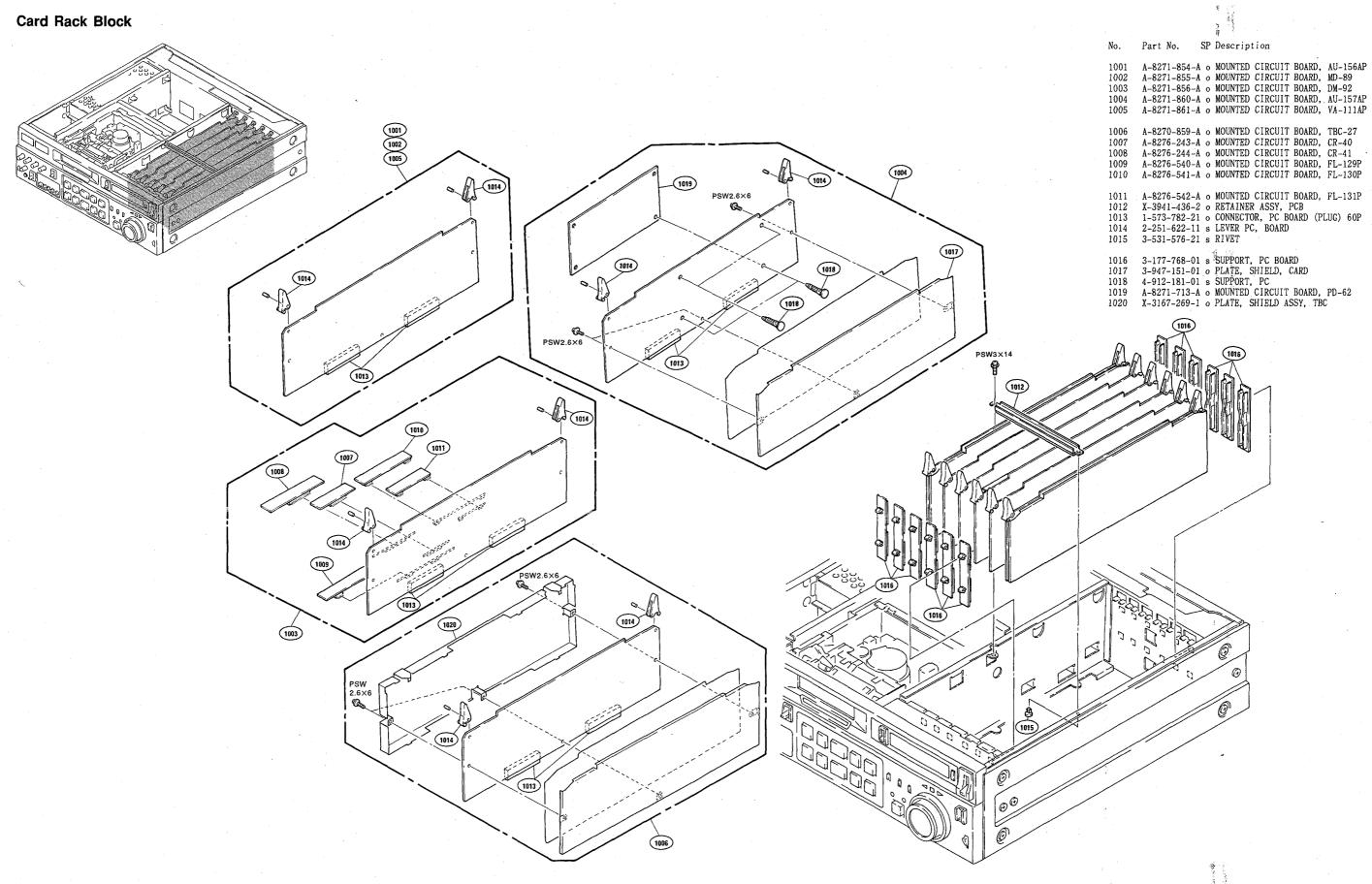


Part No. SP Description A-8262-334-A o PANEL BLOCK ASSY, KEY X-3668-075-0 s KNOB ASSY, CONTROL X-3738-905-1 o WINDOW ASSY X-3166-960-1 o PANEL ASSY (P), FRONT? 2-251-642-00 s GUARD, POWER SWITCH 903 2-284-744-00 o CUSHION (B), KEY 3-648-149-41 o COVER (DIA.4), LAMP 3-668-008-02 s PUSH BUTTON (3x5) 3-668-012-03 s RUBBER, DIAL KNOB 3-672-782-02 s KEY TOP (A) 3-672-782-11 s KEY TOP (A) 3-672-783-02 s KEY TOP (B) 3-672-783-12 s KEY TOP (B) 913 3-672-783-32 s KEY TOP (B) 914 3-672-783-42 s KEY TOP (B) 3-672-783-52 s KEY TOP (B) 3-703-080-31 s LABEL (TOP), SUB CAUTION 3-717-370-01 o KNOB, DIAL 916 918 3-717-374-01 o FRAME (23x12), ORNAMENTAL, SW 3-717-375-01 o FRAME (18x12), ORNAMENTAL, SW 920 3-717-557-01 o PLATE, KNOB 3-717-613-01 o PLATE, ORNAMENTAL, LSW 3-721-101-73 o DOOR 3-733-602-01 s KEY TOP (S) 926 3-733-603-01 s KEY TOP 3-733-604-01 s KEY TOP (PC) 3-733-605-01 s COVER, LED 3-733-606-01 s PUSH BUTTON (5x9) 3-733-690-01 s +B4x6 (CU, NI) 3-738-907-01 s FRAME, ORNAMENTAL, LEVER SW 928 929 930 3-738-912-01 s PIN (9), PUSH BUTTON 3-738-925-03 o PLATE (LEFT), SIDE 3-738-926-03 o PLATE (RIGHT), SIDE 933 934 3-947-146-01 o PLATE, BOTTOM 3-947-148-01 o PLATE, TOP

4-309-349-00 s SPRING, COIL

4-866-613-00 s SPRING, COMPRESSION





# 14-3. ELECTRICAL PARTS LIST

AA-57P B	OARD	(AA-57P BOA	ARD)	
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Pa	ırt No.	SP Description
1pc 1pc 2pcs	A-8271-902-A o MOUNTED CIRCUIT BOARD, AA-57P 3-947-125-01 o BRACKET, AA 7-682-903-01 s SCREW +PWH 3x5	D104 8- D201 8- D202 8- D203 8-	·719-106-35 ·719-106-35 ·719-106-35	s DIODE RD8.2M-B2 s DIODE RD8.2M-B2 s DIODE RD8.2M-B2 s DIODE RD8.2M-B2
C1 C2 C3 C4 C5	Part No. SP Description  A-8271-902-A o MOUNTED CIRCUIT BOARD, AA-57P 3-947-125-01 o BRACKET, AA 7-682-903-01 s SCREW +PWH 3x5  1-124-119-00 s ELECT 330uF 20% 16V 1-124-360-00 s ELECT 1000uF 20% 16V 1-124-360-00 s ELECT 1000uF 20% 16V 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V  1-162-995-11 s CERAMIC, CHIP 0.022uF 50V 1-162-995-11 s CERAMIC, CHIP 100PF 5% 50V 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V 1-124-119-00 s ELECT 330uF 20% 16V 1-124-119-01 s CERAMIC, CHIP 100PF 5% 50V 1-162-995-11 s CERAMIC, CHIP 100PF 5% 50V 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V	D301 8- D302 8- D303 8- D304 8-	719-106-35 719-106-35 719-106-35	s DIODE RD8.2M-B2 s DIODE RD8.2M-B2 s DIODE RD8.2M-B2 s DIODE RD8.2M-B2 s DIODE RD8.2M-B2
C6 C7 C8 C9 C51	1-162-995-11 s CERAMIC, CHIP 0.022uF 50V 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V 1-124-119-00 s ELECT 330uF 20% 16V 1-124-119-00 s ELECT 330uF 20% 16V	D401 8- D402 8- D403 8- D404 8-	719-106-35 719-106-35 719-106-35	s DIODE RD8.2M-B2 s DIODE RD8.2M-B2 s DIODE RD8.2M-B2 s DIODE RD8.2M-B2 s DIODE RD8.2M-B2
C52 C53	1-124-119-00 s ELECT 330uF 20% 16V 1-124-119-00 s ELECT 330uF 20% 16V	D501 8- D601 8-	719-800-76 719-800-76	s DIODE 1SS226 s DIODE 1SS226
C55 C56	1-124-119-00 S ELECT 3300F 20% 16V 1-162-927-11 S CERAMIC, CHIP 100PF 5% 50V 1-162-995-11 S CERAMIC, CHIP 0.022uF 50V	D801 8-	719-800-76	s DIODE 1SS226 s DIODE 1SS226 s IC UPC4570G2
C59	1-124-119-00 s ELECT 330uF 20% 16V	IC201 8-	759-106-02 759-300-71 759-106-02	s IC UPC4570G2 s IC HD14053BFP s IC UPC4570G2
C103 C104 C105 C201 C202	1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-124-910-11 s ELECT 47uF 20% 50V 1-124-910-11 s ELECT 47uF 20% 50V	IC203 8- IC301 8- IC302 8- IC401 8- IC402 8-	759-300-71 759-106-02 759-106-02 759-106-02 759-106-02	S IC HD14053BFP S IC UPC4570G2 S IC UPC4570G2 S IC UPC4570G2 S IC UPC4570G2
C203 C204 C205 C301	1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V	PS1 A1-	759-745-64 759-745-64 532-605-00	S IC NJM4560M  S LINK, IC 0.4A S LINK IC 0.4A
C303 C304 C305 C306 C401 C403	1-124-910-11 s ELECT 47uF 20% 50V 1-124-910-11 s ELECT 47uF 20% 50V 1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-124-910-11 s ELECT 47uF 20% 50V 1-124-910-11 s ELECT 47uF 20% 50V 1-162-921-11 s CERAMIC, CHIP 0.001uF 10% 50V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-124-910-11 s ELECT 47uF 20% 50V 1-162-964-11 s CERAMIC, CHIP 33PF 5% 50V 1-162-964-11 s CERAMIC, CHIP 33PF 5% 50V	01 8- 02 8- 051 8- 052 8- 0501 8-	729-807-16 729-805-25 729-807-16 729-805-25 729-301-57	s TRANSISTOR 2SD1621 s TRANSISTOR 2SB1121-S s TRANSISTOR 2SD1621 s TRANSISTOR 2SB1121-S s TRANSISTOR 2SB841
C405 C406 C501	1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-124-910-11 s ELECT 47uF 20% 50V 1-124-910-11 s ELECT 47uF 20% 50V 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V	0601 8- 0602 8-	729-301-57 729-301-60	s TRANSISTOR 2SD1081 s TRANSISTOR 2SC3326N s TRANSISTOR 2SB841 s TRANSISTOR 2SD1081 s TRANSISTOR 2SC3326N
C701	1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V	0702 8-1 0703 8-1	729-301-60 729-202-38	s TRANSISTOR 2SB841 s TRANSISTOR 2SD1081 s TRANSISTOR 2SC3326N
CN202	1-506-468-11 s CONNECTOR, 3P, MALE 1-506-468-11 s CONNECTOR, 3P, MALE 1-506-468-11 s CONNECTOR, 3P, MALE	Q802 8-	729-301-60	s TRANSISTOR 2SB841 s TRANSISTOR 2SD1081 s TRANSISTOR 2SC3326N
CN204 CN205	1-564-002-41 s CONNECTOR, 3P, MALE 1-506-474-11 s CONNECTOR, 9P, MALE	R1 1-1 R2 1-1	216-824-11	S METAL, CHIP 1.8K 5% 1/16W S METAL, CHIP 1.8K 5% 1/16W
CN207 CN208 CN209	1-506-469-11 s CONNECTOR, 4P, MALE 1-506-469-11 s CONNECTOR, 4P, MALE 1-564-009-11 o CONNECTOR, 10P, MALE 1-506-469-11 s CONNECTOR, 4P, MALE 1-506-469-11 s CONNECTOR, 4P, MALE	R4 1-1 R5 1-1	216-824-11 216-824-11	S METAL, CHIP 1.8K 5% 1/16W S METAL, CHIP 1.8K 5% 1/16W S METAL, CHIP 1.8K 5% 1/16W S METAL, CHIP 1.8K 5% 1/16W
D101 D102	8-719-106-35 s DIODE RD8.2M-B2 8-719-106-35 s DIODE RD8.2M-B2 8-719-106-35 s DIODE RD8.2M-B2	R7 1-3 R8 1-3 R9 1-3	216-824-11 216-824-11 216-824-11	S METAL, CHIP 1.8K 5% 1/16W S METAL, CHIP 1.8K 5% 1/16W S METAL, CHIP 1.8K 5% 1/16W S METAL, CHIP 1.8K 5% 1/16W

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(AA-57P BOARD)
                                                                                                           AU-156AP BOARD
Ref. No.
                                                                                                           Ref. No.
                                                                                                           or Q'ty Part No.
or Q'ty Part No.
                                  SP Description
                                                                                                                                             SP Description
              1-216-798-11 s METAL, CHIP 12 5% 1/16W
                                                                                                                          A-8271-854-A o MOUNTED CIRCUIT BOARD, AU-156AP
                                                                                                           1pc
              1-216-798-11 S METAL, CHIP 12 5% 1/16W
                                                                                                                          2-251-622-11 s LEVER, PC BOARD
R710
                                                                                                            2pcs
                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V 1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                           C2
                                                                                                           C3
              1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W
                                                                                                           C4
R714
                                                                                                                          1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V
                                                                                                           C5
R715
              1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W
R716
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                           C6
R717
                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
              1-216-799-11 s METAL, CHIP 15 5% 1/16W
                                                                                                           C7
                                                                                                           С8
              1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
R720
                                                                                                                          1-126-963-11 s ELECT 4.7uF 20% 50V
R721
                                                                                                                          1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                           050
R801
R802
                                                                                                           C51
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                           C52
              1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-865-11 s METAL, CHIP 3K 5% 1/16W 1-216-797-11 s METAL, CHIP 10 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R803
                                                                                                           C53
R804
R805
                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
R806
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
R807
                                                                                                           C56
                                                                                                                         1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                           C57
              1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W
R808
                                                                                                           C58
RRNG
                                                                                                           C59
              1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W
R810
                                                                                                                          1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V
R811
                                                                                                           C60
                                                                                                                          1-126-933-11 s ELECT 100uF 20% 16V
1-126-963-11 s ELECT 4.7uF 20% 50V
              1-216-798-11 s METAL, CHIP 12 5% 1/16W
                                                                                                           C61
                                                                                                           C64
              1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W
                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                           C65
R814
                                                                                                           C101
R815
                                                                                                                         1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V
R816
                                                                                                           C102
R817
                                                                                                           C103
                                                                                                                          1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                           C104
             1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                          1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V
R818
                                                                                                           C105
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
R819
                                                                                                           C106
R820
                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
R821
                                                                                                           C107
                                                                                                                         1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-963-11 s ELECT 4.7uF 20% 50V
                                                                                                           C108
T501
              1-427-586-11 s TRANSFORMER, INPUT/OUTPUT
                                                                                                           C109
              1-427-586-11 s TRANSFORMER, INPUT/OUTPUT
1-427-586-11 s TRANSFORMER, INPUT/OUTPUT
1-427-586-11 s TRANSFORMER, INPUT/OUTPUT
T601
                                                                                                           C110
T701
                                                                                                           C150
                                                                                                                          1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
                                                                                                           C152
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                         1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                           C153
                                                                                                           C154
                                                                                                           C155
                                                                                                           C156
AC-121AP BOARD
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                         1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V
1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                           C160
-----
Ref. No.
                                                                                                           C164
                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
or Q'ty Part No.
                              SP Description
                                                                                                           C201
                                                                                                           C202
          ⚠1-576-228-11 s FUSE, H.B.C. 2A 250V
1-643-013-21 o PRINTED CIRCUIT BOARD, AC-121A
                                                                                                           C203
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
1pc
              4-601-472-00 o COVER, FUSE
                                                                                                           C204
                                                                                                                          1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                           C205
                                                                                                                          1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
CN911 ★1-565-395-11 o CONNECTOR, VH 3P, MALE
                                                                                                           C206
CN912 1-564-321-00 o CONNECTOR, 2P, MALE
                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                           C207
                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                           C208
              1-533-189-11 s HOLDER, FUSE
F2
              1-533-189-11 s HOLDER, FUSE
                                                                                                           C209
                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                          1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
                                                                                                           C250
                                                                                                                         1-126-947-11 s ELECT 47uF 20% 35V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                           C252
                                                                                                           C254
                                                                                                                         1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                           C255
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# 14-3. ELECTRICAL PARTS LIST

AA-57P BOARD	(AA-57P BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc A-8271-902-A o MOUNTED CIRCUIT BOARD, AA-57P 1pc 3-947-125-01 o BRACKET, AA 2pcs 7-682-903-01 s SCREW +PWH 3x5 C1 1-124-119-00 s ELECT 330uF 20% 16V	D104 8-719-106-35 s DIODE RD8.2M-B2 D201 8-719-106-35 s DIODE RD8.2M-B2 D202 8-719-106-35 s DIODE RD8.2M-B2 D203 8-719-106-35 s DIODE RD8.2M-B2 D204 8-719-106-35 s DIODE RD8.2M-B2
C2 1-124-119-00 s ELECT 330uF 20% 16V C3 1-124-360-00 s ELECT 1000uF 20% 16V C4 1-124-360-00 s ELECT 1000uF 20% 16V C5 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V	D301 8-719-106-35 s DIODE RD8.2M-B2 D302 8-719-106-35 s DIODE RD8.2M-B2 D303 8-719-106-35 s DIODE RD8.2M-B2
C6 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V C7 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V C8 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V C9 1-124-119-00 s ELECT 330uF 20% 16V C51 1-124-119-00 s ELECT 330uF 20% 16V	D401 8-719-106-35 s DIODE RD8.2M-B2  D402 8-719-106-35 s DIODE RD8.2M-B2  D403 8-719-106-35 s DIODE RD8.2M-B2  D404 8-719-106-35 s DIODE RD8.2M-B2  D501 8-719-800-76 s DIODE 1SS226
C52	D701 8-719-800-76 s DIODE 1SS226 D801 8-719-800-76 s DIODE 1SS226
C56 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V  C57 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V  C58 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V  C59 1-124-119-00 s ELECT 330uF 20% 16V  C101 1-124-910-11 s ELECT 47uF 20% 50V  C102 1-124-910-11 s ELECT 47uF 20% 50V	IC101 8-759-106-02 s IC UPC4570G2 IC102 8-759-106-02 s IC UPC4570G2 IC103 8-759-300-71 s IC HD14053BFP IC201 8-759-106-02 s IC UPC4570G2 IC202 8-759-106-02 s IC UPC4570G2
C103 1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V C104 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V C105 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V C201 1-124-910-11 s ELECT 47uF 20% 50V C202 1-124-910-11 s ELECT 47uF 20% 50V	IC301 8-759-106-02 s IC UPC4570G2 IC302 8-759-106-02 s IC UPC4570G2 IC401 8-759-106-02 s IC UPC4570G2 IC402 8-759-106-02 s IC UPC4570G2
C203 1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V C204 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V C205 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V C301 1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V C303 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V	DC2 & 1 532 605 00 c LINK, IC 0.4A
C303 1-162-921-11 S CERAMIC, CHIP 33PF 5% 50V  C304 1-162-921-11 S CERAMIC, CHIP 33PF 5% 50V  C305 1-124-910-11 S ELECT 47uF 20% 50V  C306 1-124-910-11 S ELECT 47uF 20% 50V  C401 1-162-964-11 S CERAMIC, CHIP 0.001uF 10% 50V  C403 1-162-921-11 S CERAMIC, CHIP 33PF 5% 50V  C404 1-162-921-11 S CERAMIC, CHIP 33PF 5% 50V  C405 1-124-910-11 S ELECT 47uF 20% 50V  C406 1-124-910-11 S ELECT 47uF 20% 50V	01 8-729-807-16 s TRANSISTOR 2SD1621 02 8-729-805-25 s TRANSISTOR 2SB1121-S 051 8-729-807-16 s TRANSISTOR 2SD1621 052 8-729-805-25 s TRANSISTOR 2SB1121-S 0501 8-729-301-57 s TRANSISTOR 2SB841
C404 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V C405 1-124-910-11 s ELECT 47uF 20% 50V C406 1-124-910-11 s ELECT 47uF 20% 50V C501 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V C601 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V	Q003 0-729-202-30 \$ TANS1310K 2363320N
C701 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V C801 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V	Q701 8-729-301-57 s TRANSISTOR 258841 Q702 8-729-301-60 s TRANSISTOR 2501081 Q703 8-729-202-38 s TRANSISTOR 25C3326N Q801 8-729-301-57 s TRANSISTOR 25B841
CN201 1-506-468-11 s CONNECTOR, 3P, MALE CN202 1-506-468-11 s CONNECTOR, 3P, MALE CN203 1-506-468-11 s CONNECTOR, 3P, MALE CN204 1-564-002-41 s CONNECTOR, 3P, MALE CN205 1-506-474-11 s CONNECTOR, 9P, MALE	Q802 8-729-301-60 s TRANSISTOR 2SD1081 Q803 8-729-202-38 s TRANSISTOR 2SC3326N R1 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W
CN206 1-506-469-11 s CONNECTOR, 4P, MALE CN207 1-506-469-11 s CONNECTOR, 4P, MALE CN208 1-564-009-11 o CONNECTOR, 10P, MALE CN209 1-506-469-11 s CONNECTOR, 4P, MALE CN210 1-506-469-11 s CONNECTOR, 4P, MALE	R2 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W R3 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W R4 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W R5 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W R6 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W
CN210 1-506-469-11 s CONNECTOR, 4P, MALE  D101 8-719-106-35 s DIODE RD8.2M-B2  D102 8-719-106-35 s DIODE RD8.2M-B2  D103 8-719-106-35 s DIODE RD8.2M-B2	R7 1-216-824-11 S METAL, CHIP 1.8K 5% 1/16W R8 1-216-824-11 S METAL, CHIP 1.8K 5% 1/16W R9 1-216-824-11 S METAL, CHIP 1.8K 5% 1/16W R10 1-216-824-11 S METAL, CHIP 1.8K 5% 1/16W

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(AA-57P BOARD)
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Ref. No.

or Q'ty Part No. or Q'ty Part No. SP Description SP Description 1-216-865-11 s METAL, CHIP 3K 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-218-271-11 s METAL, CHIP 2K 5% 1/16W 1-218-271-11 s METAL, CHIP 2K 5% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W R410 R51 R411 R52 R53 R412 **R54** R413 R55 R414 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-218-272-11 s METAL, CHIP 5.1K 5% 1/16W 1-218-272-11 s METAL, CHIP 5.1K 5% 1/16W 1-218-675-11 s METAL, CHIP 200 0.50% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R56 R416 R102 R104 R417 R105 R421 R501 R106 1-218-740-11 s METAL, CHIP 100K 0.50% 1/16W 1-218-740-11 s METAL, CHIP 100K 0.50% 1/16W 1-216-816-11 s METAL, CHIP 390 5% 1/16W 1-218-727-11 s METAL, CHIP 30K 0.50% 1/16W 1-218-670-11 s METAL, CHIP 120 0.50% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-865-11 s METAL, CHIP 3K 5% 1/16W 1-216-797-11 s METAL, CHIP 10 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R502 R110 R503 R111 R504 R112 R113 R505 R506 R114 1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W 1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W R507 R115 R508 R116 1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W R509 R117 R510 R118 R119 R511 1-216-798-11 s METAL, CHIP 12 5% 1/16W R120 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W R512 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-218-272-11 s METAL, CHIP 5.1K 5% 1/16W 1-218-272-11 s METAL, CHIP 5.1K 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W R121 R513 R202 R514 1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W R204 R515 R205 R516 1-218-675-11 s METAL, CHIP 200 0.50% 1/16W 1-218-740-11 s METAL, CHIP 100K 0.50% 1/16W 1-218-740-11 s METAL, CHIP 100K 0.50% 1/16W 1-216-816-11 s METAL, CHIP 390 5% 1/16W 1-218-727-11 s METAL, CHIP 30K 0.50% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R206 R517 R210 R518 R519 R211 R520 R212 R213 R521 1-218-670-11 s METAL, CHIP 120 0.50% 1/16W 1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W 1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W R601 R214 R215 R602 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-865-11 s METAL, CHIP 3K 5% 1/16W R603 R216 R217 R604 1-216-797-11 s METAL, CHIP 10 5% 1/16W R605 R218 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R219 R606 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-218-272-11 s METAL, CHIP 5.1K 5% 1/16W 1-218-272-11 s METAL, CHIP 5.1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W R220 R607 R221 R608 1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W R301 R609 R302 R610 1-218-675-11 s METAL, CHIP 200 0.50% 1/16W 1-218-740-11 s METAL, CHIP 100K 0.50% 1/16W 1-218-740-11 s METAL, CHIP 100K 0.50% 1/16W 1-216-804-11 s METAL, CHIP 39 5% 1/16W 1-216-865-11 s METAL, CHIP 3K 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W R303 R611 R612 R307 R613 R308 R309 R614 R310 R615 1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-218-271-11 s METAL, CHIP 2K 5% 1/16W 1-218-271-11 s METAL, CHIP 2K 5% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W R616 R311 R617 R312 1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-799-11 s METAL, CHIP 15 5% 1/16W 1-216-799-11 s METAL, CHIP 15 5% 1/16W R313 R618 R619 R314 R620 R315

R621

R701

R702

R703 R704

R705

R706 R707

R708

(AA-57P BOARD)

1-216-821-11 s METAL, CHIP 1K 5% 1/16W

1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W

1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-865-11 s METAL, CHIP 3K 5% 1/16W

1-216-797-11 s METAL, CHIP 10 5% 1/16W

1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W

R316

R317

R321

R401

R402

R403

R407

R408

R409

1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W

1-210-708-11 S METAL, CHIP 4.7K 0.50% 1/16W 1-218-708-11 S METAL, CHIP 4.7K 0.50% 1/16W 1-218-708-11 S METAL, CHIP 4.7K 0.50% 1/16W 1-218-272-11 S METAL, CHIP 5.1K 5% 1/16W 1-218-272-11 S METAL, CHIP 5.1K 5% 1/16W

1-218-675-11 s METAL, CHIP 200 0.50% 1/16W 1-218-740-11 s METAL, CHIP 100K 0.50% 1/16W 1-218-740-11 s METAL, CHIP 100K 0.50% 1/16W 1-216-804-11 s METAL, CHIP 39 5% 1/16W

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(AA-57P BOARD)
                                                                                                                         AU-156AP BOARD
Ref. No.
                                                                                                                         Ref. No.
or Q'ty Part No.
                                      SP Description
                                                                                                                         or Q'ty Part No.
                                                                                                                                                                SP Description
                                                                                                                                          A-8271-854-A o MOUNTED CIRCUIT BOARD, AU-156AP 2-251-622-11 s LEVER, PC BOARD
                1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W
R709
                                                                                                                         1pc
R710
                                                                                                                         2pcs
                1-216-798-11 s METAL, CHIP 12 5% 1/16W
1-216-798-11 s METAL, CHIP 12 5% 1/16W
R711
                                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
R712
                                                                                                                         C1
                1-216-798-11 s METAL, CHIP 12 5% 1/16W
                                                                                                                         C2
R713
                                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                         C3
               1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-799-11 s METAL, CHIP 15 5% 1/16W
                                                                                                                         C4
R714
R715
                                                                                                                         C5
                                                                                                                                          1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V
R716
                                                                                                                         C6
                                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
R717
                                                                                                                                         1-160-947-11 S ELECT 470F 20% 35V

1-164-227-11 S CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 S CERAMIC, CHIP 0.022uF 10% 25V

1-126-947-11 S ELECT 470F 20% 35V

1-126-963-11 S ELECT 4.70F 20% 50V
                                                                                                                         C.7
R718
                                                                                                                         С8
R719
                1-216-799-11 s METAL, CHIP 15 5% 1/16W
                                                                                                                         C9
R720
                1-216-799-11 s METAL, CHIP 15 5% 1/16W
                                                                                                                         C10
                1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W
R721
                                                                                                                                          1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-126-947-11 s ELECT 47uF 20% 35V
R801
                                                                                                                         C50
R802
                                                                                                                         C51
                                                                                                                         C52
                1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-865-11 s METAL, CHIP 3K 5% 1/16W 1-216-797-11 s METAL, CHIP 10 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
R803
                                                                                                                         C53
R804
                                                                                                                         C54
R805
                                                                                                                                         1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-126-947-11 s ELECT 47uF 20% 35V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-126-933-11 s ELECT 100uF 20% 16V
R806
                                                                                                                         C55
                1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                         C56
R807
                                                                                                                         C57
                1-216-798-11 s METAL, CHIP 12 5% 1/16W 1-216-798-11 s METAL, CHIP 12 5% 1/16W
R808
                                                                                                                         C58
R809
                                                                                                                         C59
                1-216-798-11 s METAL, CHIP 12 5% 1/16W
1-216-798-11 s METAL, CHIP 12 5% 1/16W
1-216-798-11 s METAL, CHIP 12 5% 1/16W
R810
                                                                                                                                          1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V
R811
                                                                                                                         C60
                                                                                                                                          1-126-933-11 s ELECT 100uF 20% 16V
1-126-963-11 s ELECT 4.7uF 20% 50V
                                                                                                                         C61
R812
                                                                                                                         0.64
                                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                1-216-798-11 s METAL, CHIP 12 5% 1/16W
1-216-798-11 s METAL, CHIP 12 5% 1/16W
R813
                                                                                                                         C65
R814
                                                                                                                         C101
                1-210-798-11 S METAL, CHIP 12 5% 1/16W
1-216-798-11 S METAL, CHIP 12 5% 1/16W
1-216-798-11 S METAL, CHIP 12 5% 1/16W
1-216-798-11 S METAL, CHIP 12 5% 1/16W
R815
                                                                                                                                         1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                         C102
R816
R817
                                                                                                                         C103
                                                                                                                         C104
                                                                                                                                          1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V
1-126-947-11 s ELECT 47uF 20% 35V
R818
                1-216-799-11 s METAL, CHIP 15 5% 1/16W
                                                                                                                         C105
                1-216-799-11 s METAL, CHIP 15 5% 1/16W
1-216-799-11 s METAL, CHIP 15 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R819
                                                                                                                         C106
R820
                                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V
R821
                                                                                                                         C107
                                                                                                                         C108
T501
                1-427-586-11 s TRANSFORMER, INPUT/OUTPUT
                                                                                                                         C109
                1-427-586-11 s TRANSFORMER, INPUT/OUTPUT
1-427-586-11 s TRANSFORMER, INPUT/OUTPUT
                                                                                                                                          1-126-963-11 s ELECT 4.7uF 20% 50V
                                                                                                                         C110
T601
                                                                                                                                          1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
T701
                                                                                                                         C150
T801
                1-427-586-11 s TRANSFORMER, INPUT/OUTPUT
                                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                         C152
                                                                                                                                         1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                                         C153
                                                                                                                         C154
                                                                                                                         C155
                                                                                                                         C156
                                                                                                                         C157
                                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
AC-121AP BOARD
                                                                                                                                         1-162-947-11 S LELCH 4741 2205 35V

1-162-919-11 S CERAMIC, CHIP 22PF 5% 50V

1-126-947-11 S ELECT 474F 20% 35V

1-164-227-11 S CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 S CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                                         C160
Ref. No.
                                                                                                                         C164
or Q'ty Part No.
                                      SP Description
                                                                                                                         C201
                                                                                                                         C202
            ⚠1-576-228-11 s FUSE, H.B.C. 2A 250V
1-643-013-21 o PRINTED CIRCUIT BOARD, AC-121A
1pc
                                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                         C203
1pc
                4-601-472-00 o COVER, FUSE
                                                                                                                         C204
1pc
                                                                                                                         C205
                                                                                                                                          1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V
CN911 A1-565-395-11 o CONNECTOR, VH 3P, MALE CN912 A1-564-321-00 o CONNECTOR, 2P, MALE
                                                                                                                         C206
                                                                                                                                          1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                                         C207
                                                                                                                                          1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                                         C208
                1-533-189-11 s HOLDER, FUSE
                                                                                                                                         1-126-947-11 s ELECT 47uF 20% 35V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                         C209
F2
                1-533-189-11 s HOLDER, FUSE
                                                                                                                         C250
                                                                                                                         C252
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C254

C255

1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V

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(AU-156AP BOARD)
(AU-156AP BOARD)
                                                                                                                                                       Ref. No.
Ref. No.
                                                                                                                                                       or Q'ty Part No.
                                                                                                                                                                                                    SP Description
or Q'ty Part No.
                                               SP Description
                                                                                                                                                                           1-162-963-11 s CERAMIC, CHIP 680PF 10% 50V
1-162-969-11 s CERAMIC, CHIP 0.0068uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-965-11 s CERAMIC, CHIP 0.0015uF 10% 50V
1-124-903-11 s ELECT 1uF 20% 50V
                    1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                                       C617
C260
                                                                                                                                                       C618
C261
                                                                                                                                                       C619
C262
C263
                                                                                                                                                       C620
                     1-126-963-11 s ELECT 4.7uF 20% 50V
                                                                                                                                                       C621
C264
                    1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V 1-126-933-11 s ELECT 100uF 20% 16V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V
                                                                                                                                                       C622
                                                                                                                                                                           1-124-902-00 s ELECT 0.47uF 20% 50V
C301
                                                                                                                                                                           1-162-966-11 s CERAMIC, CHIP 0.0022uF 10% 50V

1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V

1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V

1-135-210-11 s TANTALUM, CHIP 4.7uF 20% 10V
                                                                                                                                                       C623
C302
                                                                                                                                                       C624
C303
                                                                                                                                                       C625
C304
C305
                                                                                                                                                       C626
                                                                                                                                                                           1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V
1-124-902-00 s ELECT 0.47uF 20% 50V
                                                                                                                                                       C627
C306
                     1-126-947-11 s ELECT 47uF 20% 35V
                    1-120-947-11 S ELECT 474E 20% 35V

1-164-227-11 S CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 S CERAMIC, CHIP 0.022uF 10% 25V

1-126-947-11 S ELECT 47uF 20% 35V

1-163-035-00 S CERAMIC, CHIP 0.047uF 50V
C307
                                                                                                                                                       C628
                                                                                                                                                                           1-124-902-00 S ELECT 0.474F 20% 30V
1-126-966-11 S ELECT 33uF 20% 50V
1-135-210-11 S TANTALUM, CHIP 4.7uF 20% 10V
1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                                       C629
C308
                                                                                                                                                       C630
C309
                                                                                                                                                       C631
C350
                                                                                                                                                                         1-124-903-11 s ELECT 1uF 20% 50V
1-126-933-11 s ELECT 100uF 20% 16V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-126-933-11 s ELECT 100uF 20% 16V
1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                                       C701
C352
                     1-126-947-11 s ELECT 47uF 20% 35V
                    1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V
1-126-947-11 s ELECT 47uF 20% 35V
1-124-464-11 s ELECT 0.22uF 20% 50V
C360
                                                                                                                                                       C702
                                                                                                                                                       C703
C364
                                                                                                                                                       C704
C501
                     1-126-963-11 s ELECT 4.7uF 20% 50V
                                                                                                                                                       C705
C502
                                                                                                                                                                           1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                    1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-126-933-11 s ELECT 100uF 20% 16V 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C503
                                                                                                                                                       C706
                                                                                                                                                       C707
C504
                                                                                                                                                       C708
C709
 C505
 C506
                     1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                                       C710
 C507
                                                                                                                                                                           1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-164-346-11 s CERAMIC 1uF 16V 1-162-926-11 s CERAMIC, CHIP 82PF 5% 50V
                    1-164-373-11 s CERAMIC, CHIP 0.033uF 25V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-162-967-11 s CERAMIC, CHIP 0.0033uF 10% 50V
 C508
C509
                                                                                                                                                       C712
                                                                                                                                                       C713
 C510
                     1-126-933-11 s ELECT 100uF 20% 16V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                                                           1-124-916-11 s ELECT 22uF 20% 63V
1-124-903-11 s ELECT 1uF 20% 50V
                                                                                                                                                       C714
 C511
                                                                                                                                                       C715
 C512
                     1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V 1-162-969-11 s CERAMIC, CHIP 0.0068uF 10% 25V
                                                                                                                                                                           1-124-903-11 s ELECT 1uF 20% 50V
 C513
                                                                                                                                                       C716
                                                                                                                                                                           1-124-925-11 s ELECT 2.2uF 20% 100V
                                                                                                                                                       C717
 C514
                                                                                                                                                                           1-124-903-11 s ELECT 1uF 20% 50V
1-124-916-11 s ELECT 22uF 20% 63V
                                                                                                                                                       C718
 C515
                                                                                                                                                       C719
 C517
                                                                                                                                                       C720
                                                                                                                                                                           1-124-903-11 s ELECT 1uF 20% 50V
C518
                     1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-965-11 s CERAMIC, CHIP 0.0015uF 10% 50V
1-124-903-11 s ELECT 1uF 20% 50V
1-162-966-11 s CERAMIC, CHIP 0.0022uF 10% 50V
1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
                                                                                                                                                                           1-124-903-11 s ELECT 1uF 20% 50V
1-124-925-11 s ELECT 2.2uF 20% 100V
                                                                                                                                                       C721
 C519
 C520
                                                                                                                                                       C722
                                                                                                                                                                           1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V
1-162-920-11 s CERAMIC, CHIP 27PF 5% 50V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
 C521
                                                                                                                                                       C723
                                                                                                                                                       C724
 C523
                                                                                                                                                       C725
C524
                                                                                                                                                                           1-162-207-31 s CERAMIC 22PF 5% 50V
                                                                                                                                                       C726
                      1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V
 C525
                                                                                                                                                                           1-162-207-31 S CERAMIC 22PF 36 30V

1-162-965-11 S CERAMIC, CHIP 0.0015uF 10% 50V

1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V

1-135-091-00 S TANTALUN, CHIP 1uF 10% 16V

1-135-091-00 S TANTALUN, CHIP 1uF 10% 16V
                     1-135-091-00 S TANTALUM, CHIP 107 108 10V
1-135-210-11 S TANTALUM, CHIP 4.7uF 20% 10V
1-163-125-00 S CERAMIC, CHIP 220PF 5% 50V
1-124-902-00 S ELECT 0.47uF 20% 50V
1-124-902-00 S ELECT 0.47uF 20% 50V
 C526
                                                                                                                                                       C727
                                                                                                                                                       C728
 C527
 C528
                                                                                                                                                       C730
                                                                                                                                                       C731
 C531
                     1-124-464-11 s ELECT 0.22uF 20% 50V
1-126-963-11 s ELECT 4.7uF 20% 50V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-126-933-11 s ELECT 100uF 20% 16V
1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V
                                                                                                                                                                           1-124-903-11 s ELECT 1uF 20% 50V
1-124-464-11 s ELECT 0.22uF 20% 50V
                                                                                                                                                       C732
 C601
                                                                                                                                                       C733
 C602
                                                                                                                                                                           1-124-904-11 S ELECT 0.22UF 20% 50V

1-164-227-11 S CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 S CERAMIC, CHIP 0.022uF 10% 25V

1-124-925-11 S ELECT 2.2uF 20% 100V
 C603
                                                                                                                                                       C734
                                                                                                                                                       C735
 C604
 C605
                                                                                                                                                       C750
                                                                                                                                                                           1-126-947-11 s ELECT 47uF 20% 35V
1-126-964-11 s ELECT 10uF 20% 50V
 C606
                      1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                                       C801
                     1-102-970-11 S CERAMIC, CHIP 0.010F 10% 25V

1-126-933-11 S ELECT 100uF 20% 16V

1-164-373-11 S CERAMIC, CHIP 0.033uF 25V

1-163-038-91 S CERAMIC, CHIP 0.1uF 25V

1-162-967-11 S CERAMIC, CHIP 0.0033uF 10% 50V
                                                                                                                                                       C802
 C607
                                                                                                                                                                           1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                                                                       C803
 C608
                                                                                                                                                       CR04
 C609
 C610
                                                                                                                                                       C805
                                                                                                                                                                            1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                                                                        C806
 C611
                      1-126-933-11 s ELECT 100uF 20% 16V
                     1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                                                           1-126-947-11 s ELECT 47uF 20% 35V
1-126-964-11 s ELECT 10uF 20% 50V
 C613
                                                                                                                                                       C851
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0883

1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V

C614

C615

(AU-156A BO	DARD)		(AU-156A	BOARD)		
Ref. No. or Q'ty Pa	art No. SP Description		Ref. No. or Q'ty	Part No.	SP Description	1 .
C901 1- C902 1- C951 1-	-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V -126-933-11 s ELECT 100uF 20% 16V -126-934-11 s ELECT 220uF 20% 16V -126-947-11 s ELECT 47uF 20% 35V -164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V		IC250 IC251	8-759-701-9 8-759-701-9 8-759-009-0	27 s IC M5201FP 97 s IC NJM4562N 97 s IC NJM4562N 06 s IC MC14052N 27 s IC M5201FP	1
C954 1- C955 1- C956 1-	-126-947-11 s ELECT 47uF 20% 35V -126-947-11 s ELECT 47uF 20% 35V -164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V -126-934-11 s ELECT 220uF 20% 16V -126-934-11 s ELECT 220uF 20% 16V		IC501 IC601	8-759-009- 8-759-823- 8-759-823-	97 s IC NJM4562h 03 s IC MC14049U 19 s IC CXA1488F 19 s IC CXA1488F 21 s IC CXA15360	JBF { {
C1002 1- C1003 1- C1004 1-	-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V -162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V -162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V -164-677-11 s CERAMIC, CHIP 0.033uF 10% 16V -164-677-11 s CERAMIC, CHIP 0.033uF 10% 16V		1C703 1C704 1C705	8-759-925-7 8-759-925-7 8-759-708-0	46 s IC SN74HC00 74 s IC TC74HC04 72 s IC SN74HC02 05 s IC NJM78L05 58 s IC TC74HC22	INS PNS SA
C1007 1- CN221 1-	-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V -162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V -506-488-11 s CONNECTOR 9P, MALE	•	IC851 IC1001	8-759-603-2 8-759-923-6	27 s IC M5201FP 27 s IC M5201FP 63 s IC TL592PS 43 s IC NJM4558N	1
CN603 1- CN604 1-	-506-489-11 s CONNECTOR 10P, MALE -573-782-21 o CONNECTOR, PHEC 60P, MALE -573-782-21 o CONNECTOR, PHEC 60P, MALE		L950	1-412-533-2 1-412-533-2	21 s INDUCTOR, 21 s INDUCTOR, 21 s INDUCTOR,	47uH 47uH
D2 8- D50 8- D51 8-	-719-941-86 s DIODE DAN202U -719-941-09 s DIODE DAP202U -719-941-09 s DIODE DAP202U -719-941-09 s DIODE DAP202U -719-941-09 s DIODE DAP202U		Q1 Q2 Q3	8-729-117-3 8-729-117-3 8-729-117-3	21 s INDUCTOR CH 32 s TRANSISTOR 32 s TRANSISTOR 32 s TRANSISTOR 11 s TRANSISTOR	2SC4177 2SC4177 2SC4177
D54 8- D55 8- D101 8-	-719-941-86 s DIODE DAN202U -719-941-86 s DIODE DAN202U -719-941-86 s DIODE DAN202U -719-941-86 s DIODE DAN202U -719-941-09 s DIODE DAP202U		Q51 Q54 Q101 Q102	8-729-209-1 8-729-209-1 8-729-117-3 8-729-117-3	11 s TRANSISTOR 11 s TRANSISTOR 32 s TRANSISTOR 32 s TRANSISTOR	2SC4213A-TE85L 2SC4213A-TE85L 2SC4177 2SC4177
D151 8- D153 8- D201 8-	-719-941-09 s DIODE DAP202U -719-941-09 s DIODE DAP202U -719-941-09 s DIODE DAP202U -719-941-86 s DIODE DAN202U -719-941-09 s DIODE DAP202U		Q150 Q151 Q154 Q155	8-729-209-1 8-729-209-1 8-729-209-1 8-729-905-1	32 s TRANSISTOR 11 s TRANSISTOR 11 s TRANSISTOR 11 s TRANSISTOR 18 s TRANSISTOR	2SC4213A-TE85L 2SC4213A-TE85L 2SC4213A-TE85L DTC144EU
D302 8- D750 8- D751 8-	-719-941-86 s DIODE DAN202U -719-941-09 s DIODE DAP202U -719-941-09 s DIODE DAP202U -719-941-09 s DIODE DAP202U -719-941-09 s DIODE DAP202U		Q202 Q203 Q250 Q251	8-729-117-3 8-729-117-3 8-729-209-1 8-729-209-1	32 s TRANSISTOR 32 s TRANSISTOR 32 s TRANSISTOR 31 s TRANSISTOR 32 s TRANSISTOR 33 s TRANSISTOR 34 s TRANSISTOR	2SC4177 2SC4177 2SC4213A-TE85L 2SC4213A-TE85L
D901 8- D902 8-	-719-941-86 s DIODE DAN202U -719-200-02 s DIODE 10E2 -719-200-02 s DIODE 10E2 -719-941-09 s DIODE DAP202U		Q256 Q257	8-729-905-1 8-729-905-1	18 s TRANSISTOR 18 s TRANSISTOR 32 s TRANSISTOR	DTC144EU DTC144EU
	-236-550-11 s FILTER, BAND PASS 15MHz -236-551-11 s FILTER, BAND PASS 17MHz		Q303	8-729-117-3	32 s TRANSISTOR 32 s TRANSISTOR 11 s TRANSISTOR	2SC4177
IC2 8- IC50 8- IC51 8-	-759-603-27 s IC M5201FP -759-701-97 s IC NJM4562M -759-701-97 s IC NJM4562M -759-603-27 s IC M5201FP -759-981-86 s IC RC4556MA		Q602 Q701 Q702	8-729-117-3 8-729-117-3 8-729-117-3	11 s TRANSISTOR 32 s TRANSISTOR 32 s TRANSISTOR 32 s TRANSISTOR 32 s TRANSISTOR	2SC4177 2SC4177 2SC4177
IC101 8- IC102 8- IC150 8-	-759-009-06 s IC MC14052BF -759-603-27 s IC M5201FP -759-701-97 s IC NJM4562M -759-701-97 s IC NJM4562M -759-603-27 s IC M5201FP		Q705 Q706 Q707	8-729-117-3 8-729-117-3 8-729-117-3	32 s TRANSISTOR 32 s TRANSISTOR 32 s TRANSISTOR 32 s TRANSISTOR 32 s TRANSISTOR	2SC4177 2SC4177 2SC4177

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(AU-156AP BOARD)
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Ref. No.
                                                                                                                                                                                                                                                                                         Ref. No.
                                                                                                                                                                                                                                                                                                                                                                                  SP Description
                                                                                                                                                                                                                                                                                          or Q'ty Part No.
 or Q'ty Part No.
                                                                                         SP Description
                                                                                                                                                                                                                                                                                                                               1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-820-11 s METAL, CHIP 820 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                      8-729-117-32 s TRANSISTOR 2SC4177
8-729-117-32 s TRANSISTOR 2SC4177
8-729-905-18 s TRANSISTOR DTC144EU
                                                                                                                                                                                                                                                                                          R113
                                                                                                                                                                                                                                                                                          R115
 0710
 0750
                                                                                                                                                                                                                                                                                          R116
                                      8-729-117-16 s TRANSISTOR 2SA1611-M6
8-729-117-32 s TRANSISTOR 2SC4177
 0751
                                                                                                                                                                                                                                                                                         R150
                                                                                                                                                                                                                                                                                         R151
 Q752
                                                                                                                                                                                                                                                                                                                               1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-838-11 s METAL, CHIP 27K 5% 1/16W 1-216-835-11 s METAL, CHIP 15K 5% 1/16W 1-216-835-11 s METAL, CHIP 15K 5% 1/16W
                                      8-729-117-32 s TRANSISTOR 2SC4177
8-729-117-16 s TRANSISTOR 2SA1611-M6
 0753
                                                                                                                                                                                                                                                                                          R152
 Q754
                                                                                                                                                                                                                                                                                          R153
                                      8-729-117-32 s TRANSISTOR 2SC4177
8-729-117-32 s TRANSISTOR 2SC4177
 0755
                                                                                                                                                                                                                                                                                          R154
                                                                                                                                                                                                                                                                                          R155
                                      8-729-209-11 s TRANSISTOR 2SC4213A-TE85L
 0801
                                                                                                                                                                                                                                                                                          R157
                                                                                                                                                                                                                                                                                                                               1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-218-345-11 s METAL, CHIP 9.1K 5% 1/16W 1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W 1-216-797-11 s METAL, CHIP 10 5% 1/16W 1.216-832-11 c METAL, CHIP 10 5% 1/16W 1/1
                                      8-729-117-32 s TRANSISTOR 2SC4177
8-729-209-11 s TRANSISTOR 2SC4213A-TE85L
 0802
                                                                                                                                                                                                                                                                                          R158
 0851
                                                                                                                                                                                                                                                                                         R159
                                      8-729-117-32 s TRANSISTOR 2SC4177
8-729-117-32 s TRANSISTOR 2SC4177
 0852
                                                                                                                                                                                                                                                                                          R160
 Q860
                                                                                                                                                                                                                                                                                          R161
                                                                                                                                                                                                                                                                                                                                 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                      8-729-117-16 s TRANSISTOR 2SA1611-M6
 Q901
                                                                                                                                                                                                                                                                                         R162
                                                                                                                                                                                                                                                                                                                               1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
 0902
                                       8-729-117-16 s TRANSISTOR 2SA1611-M6
                                                                                                                                                                                                                                                                                          R163
                                      8-729-230-49 s TRANSISTOR 2SC2712-YG
                                                                                                                                                                                                                                                                                          R164
 Q911
                                      8-729-216-22 s TRANSISTOR 2SA1162
 0912
                                                                                                                                                                                                                                                                                          R165
                                      8-729-120-28 s TRANSISTOR 2SC1623-L5L6
8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                                                                                                                                                                                          R200
 01001
                                                                                                                                                                                                                                                                                          R201
 01002
                                                                                                                                                                                                                                                                                                                              1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 10OK 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-805-11 s METAL, CHIP 47 5% 1/16W 1-216-849-11 s METAL, CHIP 220K 5% 1/16W
                                      8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                                                                                                                                                                                          R202
 01003
                                                                                                                                                                                                                                                                                         R203
                                     1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-835-11 s METAL, CHIP 10K 5% 1/16W 1-216
                                                                                                                                                                                                                                                                                          R204
                                                                                                                                                                                                                                                                                          R205
R2
                                                                                                                                                                                                                                                                                         R206
R3
 R4
                                                                                                                                                                                                                                                                                                                               1-216-809-11 s METAL, CHIP 100 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                      1-216-805-11 s METAL, CHIP 47 5% 1/16W
                                                                                                                                                                                                                                                                                          R207
R5
                                                                                                                                                                                                                                                                                         R208
                                      1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
                                                                                                                                                                                                                                                                                                                               1-216-845-11 s METAL, CHIP 100K 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                                                                                                                                                         R209
                                                                                                                                                                                                                                                                                         R210
R8
                                                                                                                                                                                                                                                                                        R211
R9
                                                                                                                                                                                                                                                                                                                              1-216-843-11 s METAL, CHIP 68K 5% 1/16W
1-216-809-11 s METAL, CHIP 100 5% 1/16W
1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                                                                                                         R212
R10
                                                                                                                                                                                                                                                                                        R213
                                      1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-843-11 s METAL, CHIP 68K 5% 1/16W
1-216-809-11 s METAL, CHIP 100 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
                                                                                                                                                                                                                                                                                       R250
R251
R11
R12
R13
                                                                                                                                                                                                                                                                                        R252
R15
                                                                                                                                                                                                                                                                                                                              1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-216-838-11 s METAL, CHIP 27K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
                                                                                                                                                                                                                                                                                        R253
R50
                                                                                                                                                                                                                                                                                        R254
                                      1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W
                                                                                                                                                                                                                                                                                        R255
R51
                                                                                                                                                                                                                                                                                        R257
R52
                                                                                                                                                                                                                                                                                        R266
R53
R54
                                                                                                                                                                                                                                                                                                                              1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
                                                                                                                                                                                                                                                                                        R267
                                                                                                                                                                                                                                                                                        R268
                                      1-216-838-11 s METAL, CHIP 27K 5% 1/16W
1-216-845-11 s METAL, CHIP 100K 5% 1/16W
1-218-345-11 s METAL, CHIP 9.1K 5% 1/16W
1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W
1-216-797-11 s METAL, CHIP 10 5% 1/16W
                                                                                                                                                                                                                                                                                        R269
                                                                                                                                                                                                                                                                                        R270
R58
R59
                                                                                                                                                                                                                                                                                        R271
R60
                                                                                                                                                                                                                                                                                                                               1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R61
                                                                                                                                                                                                                                                                                        R272
                                                                                                                                                                                                                                                                                                                             1-210-033-11 S METAL, CHIP 10K 5% 1/10W

1-220-373-11 S METAL, CHIP 62K 0.50% 1/16W

1-216-821-11 S METAL, CHIP 1K 5% 1/16W

1-216-833-11 S METAL, CHIP 10K 5% 1/16W

1-216-845-11 S METAL, CHIP 100K 5% 1/16W
                                                                                                                                                                                                                                                                                        R274
                                      1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-805-11 s METAL, CHIP 47 5% 1/16W
                                                                                                                                                                                                                                                                                        R275
R62
                                                                                                                                                                                                                                                                                        R276
R100
R103
                                                                                                                                                                                                                                                                                        R277
R104
                                                                                                                                                                                                                                                                                                                              1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-805-11 s METAL, CHIP 47 5% 1/16W 1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W
                                                                                                                                                                                                                                                                                        B303
R105
                                                                                                                                                                                                                                                                                        R304
                                     1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R106
                                                                                                                                                                                                                                                                                        R305
R107
                                                                                                                                                                                                                                                                                        R306
R108
                                                                                                                                                                                                                                                                                        R307
R109
                                                                                                                                                                                                                                                                                                                              1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-845-11 s METAL, CHIP 100K 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                                                                                                                                                        R308
R110
                                                                                                                                                                                                                                                                                       R309
                                      1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                                                                                                                                                        R310
                                      1-216-843-11 s METAL, CHIP 68K 5% 1/16W
R112
                                                                                                                                                                                                                                                                                        R311
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(AU-156A BOARD)

(AU-156A BOARD) Ref. No. Ref. No. or Q'ty Part No. SP Description or Q'ty Part No. SP Description

1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-853-11 s METAL, CHIP 470K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-864-11 s METAL, CHIP 0 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-843-11 s METAL, CHIP 68K 5% 1/16W 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-216-820-11 s METAL, CHIP 820 5% 1/16W R624 R313 R650 R316 1-210-820-11 S METAL, CHIP 620 5% 1/16W 1-216-825-11 S METAL, CHIP 2.2K 5% 1/16W 1-216-833-11 S METAL, CHIP 10K 5% 1/16W R653 R350 R701 R351 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-218-698-11 s METAL, CHIP 1.8K 0.50% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-835-11 s METAL, CHIP 27K 5% 1/16W 1-216-835-11 s METAL, CHIP 15K 5% 1/16W 1-216-835-11 c METAL, CHIP 15K 5% 1/16W 1-216-835-11 c METAL R702 R352 R703 R353 R354 R704 R705 R355 1-216-835-11 s METAL, CHIP 15K 5% 1/16W R706 R357 1-218-698-11 s METAL, CHIP 1.8K 0.50% 1/16W 1-216-834-11 s METAL, CHIP 12K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R707 R401 R708 R709 R402 1-216-820-11 s METAL, CHIP 820 5% 1/16W 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R403 R710 R404 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R711 R405 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-218-313-11 s METAL, CHIP 560 1% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R406 R713 R412 R714 R413 R715 R414 R415 R716 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-218-724-11 s METAL, CHIP 2K 0.50% 1/16W 1-216-857-11 s METAL, CHIP 1M 5% 1/16W R717 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R501 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 47K 5% 1/16W R718 R503 R719 R504 R720 R505 R506 R721 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-218-716-11 s METAL, CHIP 10K 0.50% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R722 R507 R508 R723 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R724 R510 R725 R511 R727 R513 1-216-857-11 s METAL, CHIP 1M 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-218-883-11 s METAL, CHIP 33K 0.50 1/16W R728 R514 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R515 R729 R732 R516 R733 R517 R734 R518 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-218-732-11 s METAL, CHIP 47K 0.50% 1/16W 1-218-732-11 s METAL, CHIP 47K 0.50% 1/16W 1-216-864-11 s METAL, CHIP 0 5% 1/16W 1.216-864-11 s METAL, CHIP 0 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-218-732-11 s METAL, CHIP 47K 0.50% 1/16W 1-218-732-11 s METAL, CHIP 47K 0.50% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R735 R519 R736 R520 R737 R521 R744 R522 1-216-864-11 s METAL, CHIP 0 5% 1/16W R745 R523 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-853-11 s METAL, CHIP 47OK 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-853-11 s METAL, CHIP 470K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R524 R750 R550 R751 R601 R752 R603 R753 R604 1-218-724-11 s METAL, CHIP 22K 0.50% 1/16W 1-216-857-11 s METAL, CHIP 1M 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R605 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-835-11 s METAL, CHIP 15K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R755 R606 R756 R607 R757 R608 R610 R758 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-218-716-11 s METAL, CHIP 10K 0.50% 1/16W 1-218-883-11 s METAL, CHIP 33K 0.50 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W R759 R760 R613 1-210-039-11 S METAL, CHIP 33K 5% 1/16W 1-216-835-11 S METAL, CHIP 15K 5% 1/16W 1-216-821-11 S METAL, CHIP 1K 5% 1/16W 1-216-864-11 S METAL, CHIP 0 5% 1/16W R761 R614 R762 R615 R763 R616 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-864-11 s METAL, CHIP 0 5% 1/16W 1-216-864-11 s METAL, CHIP 0 5% 1/16W R764 R617 R800 R620 R801 R621 R622 R802

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1-216-797-11 s METAL, CHIP 10 5% 1/16W
1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R804
 R805
 R806
R807
                                        1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-815-11 s METAL, CHIP 330 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R808
R809
R850
                                        1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R851
R852
                                        1-216-797-11 s METAL, CHIP 10 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1.216-837-11 s METAL, CHIP 10K 5% 1/16W 1/1
 R853
 R854
R855
R856
                                          1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R857
                                        1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-815-11 s METAL, CHIP 330 5% 1/16W
R858
R859
                                        1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
 R860
 R861
 R862
                                        1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-834-11 s METAL, CHIP 12K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16
R901
 R902
R903
R904
                                         1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R905
                                          1-216-837-11 s METAL, CHIP 22K 5% 1/16W
 R906
                                        1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R927
R928
 R1001
                                         1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R1002
R1003
                                        1-216-824-11 s METAL, CHIP 2.4K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R1004
                                        1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R1005
 R1006
 R1007
                                        1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R1008
R1009
R1010
                                         1-216-833-11 s METAL, CHIP 10K 5% 1/16W
/R1011
                                       1-238-804-11 s RES, ADJ METAL 50K
1-238-788-11 s RES, ADJ METAL 20K
1-238-804-11 s RES, ADJ METAL 50K
 RV1
RV51
RV101
                                        1-238-788-11 s RES, ADJ METAL 20K
RV151
                                        1-238-804-11 s RES, ADJ METAL 50K
RV201
RV251
                                        1-238-788-11 s RES, ADJ METAL 20K
                                        1-238-804-11 s RES, ADJ METAL 50K
1-238-788-11 s RES, ADJ METAL 20K
1-238-802-11 s RES, ADJ METAL 10K
RV301
 RV351
 RV501
RV502
                                        1-238-802-11 s RES, ADJ METAL 10K
RV503
                                        1-238-801-11 s RES, ADJ METAL 5K
                                        1-238-802-11 s RES, ADJ METAL 10K
1-238-802-11 s RES, ADJ METAL 10K
RV601
RV602
RV603
                                        1-238-800-11 s RES, ADJ METAL 2K
                                         1-238-802-11 s RES, ADJ METAL 10K
RV701
RV702
                                        1-238-802-11 s RES, ADJ METAL 10K
RV750
                                        1-238-801-11 s RES, ADJ METAL 5K
                                        1-238-801-11 s RES, ADJ METAL 5K
RV751
                                        1-238-784-11 s RES, ADJ METAL 1K
1-238-784-11 s RES, ADJ METAL 1K
RV801
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#### (AU-156AP BOARD)

Ref. No. or Q'ty Part No. SP Description RV1001 1-238-800-11 s RES, ADJ METAL 2K 1-570-134-11 s SWITCH, SLIDE X501 1-577-117-21 s CRYSTAL 4.433619MHz

RV851

AU-157AP BOARD	(AU-157AP BOARD)
Ref. No.	Ref. No.
or Q'ty Part No. SP Description	or Q'ty Part No. SP Description
1pc A-8271-860-A o MOUNTED CIRCUIT BOARD, AU-157AP 1pc 3-947-151-01 o PLATE, SHIELD, CARD 1pc 4-912-181-01 s SUPPORT, PC 1pc 7-621-759-45 s SCREW +PSW 2.6x6 2pcs 2-251-622-11 s LEVER, PC BOARD	C463 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V C464 1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V C468 1-126-933-11 s ELECT 100uF 20% 16V C469 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C470 1-126-933-11 s ELECT 100uF 20% 16V
C401 1-126-933-11 s ELECT 100uF 20% 16V	C471 1-126-963-11 s ELECT 4.7uF 20% 50V
C402 1-126-947-11 s ELECT 47uF 20% 35V	C501 1-126-933-11 s ELECT 100uF 20% 16V
C403 1-126-947-11 s ELECT 47uF 20% 35V	C502 1-126-947-11 s ELECT 47uF 20% 35V
C404 1-162-587-11 s CERAMIC, CHIP 0.039uF 10% 25V	C503 1-126-947-11 s ELECT 47uF 20% 35V
C405 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V	C504 1-162-587-11 s CERAMIC, CHIP 0.039uF 10% 25V
C406 1-126-947-11 s ELECT 47uF 20% 35V C407 1-162-968-11 s CERAMIC, CHIP 0.0047uF 10% 50V C408 1-162-917-11 s CERAMIC, CHIP 15PF 5% 50V C409 1-126-947-11 s ELECT 47uF 20% 35V C410 1-163-020-00 s CERAMIC, CHIP 0.0082uF 10% 50V	C505 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V C506 1-126-947-11 s ELECT 47uF 20% 35V C507 1-162-968-11 s CERAMIC, CHIP 0.0047uF 10% 50V C508 1-162-917-11 s CERAMIC, CHIP 15PF 5% 50V C509 1-126-947-11 s ELECT 47uF 20% 35V
C411 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V C412 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V C413 1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V C414 1-126-933-11 s ELECT 100uF 20% 16V C415 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V	
C416 1-124-916-11 s ELECT 22uF 20% 63V	C517 1-124-916-11 s ELECT 22uF 20% 63V
C417 1-124-916-11 s ELECT 22uF 20% 63V	C518 1-124-916-11 s ELECT 22uF 20% 63V
C418 1-124-916-11 s ELECT 22uF 20% 63V	C519 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
C419 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V	C520 1-126-947-11 s ELECT 47uF 20% 35V
C420 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V	C521 1-126-947-11 s ELECT 47uF 20% 35V
C424 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V	C522 1-126-947-11 s ELECT 47uF 20% 35V
C425 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V	C523 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
C426 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V	C524 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
C427 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V	C525 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C428 1-126-947-11 s ELECT 47uF 20% 35V	C526 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
C429 1-124-916-11 s ELECT 22uF 20% 63V	C532 1-163-137-00 s CERAMIC, CHIP 680PF 5% 50V
C430 1-126-947-11 s ELECT 47uF 20% 35V	C533 1-124-902-00 s ELECT 0.47uF 20% 50V
C431 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V	C535 1-124-916-11 s ELECT 22uF 20% 63V
C432 1-163-137-00 s CERAMIC, CHIP 680PF 5% 50V	C536 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
C433 1-124-902-00 s ELECT 0.47uF 20% 50V	C537 1-126-947-11 s ELECT 47uF 20% 35V
C435 1-124-916-11 s ELECT 22uF 20% 63V C436 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V C437 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C438 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C439 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V	C538 1-126-947-11 s ELECT 47uF 20% 35V C539 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C540 1-126-947-11 s ELECT 47uF 20% 35V C543 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C550 1-163-012-00 s CERAMIC CHIP 1800PF 10% 50V
C440 1-126-947-11 s ELECT 47uF 20% 35V	C551 1-126-933-11 s ELECT 100uF 20% 16V
C441 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V	C552 1-126-947-11 s ELECT 47uF 20% 35V
C442 1-126-933-11 s ELECT 100uF 20% 16V	C553 1-126-947-11 s ELECT 47uF 20% 35V
C443 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V	C554 1-162-587-11 s CERAMIC, CHIP 0.039uF 10% 25V
C447 1-124-916-11 s ELECT 22uF 20% 63V	C555 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V
C448 1-126-947-11 s ELECT 47uF 20% 35V C449 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V C450 1-163-012-00 s CERAMIC CHIP 1800PF 10% 50V C451 1-126-933-11 s ELECT 100uF 20% 16V C452 1-126-947-11 s ELECT 47uF 20% 35V	C556 1-126-947-11 s ELECT 47uF 20% 35V C557 1-162-968-11 s CERAMIC, CHIP 0.0047uF 10% 50V C559 1-162-917-11 s CERAMIC, CHIP 15PF 5% 50V C560 1-163-020-00 s CERAMIC, CHIP 0.0082uF 10% 50V C561 1-163-137-00 s CERAMIC, CHIP 680PF 5% 50V
C453 1-126-947-11 s ELECT 47uF 20% 35V	C562 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V
C454 1-162-587-11 s CERAMIC, CHIP 0.039uF 10% 25V	C563 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V
C456 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V	C564 1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V
C457 1-162-968-11 s CERAMIC, CHIP 0.0047uF 10% 50V	C571 1-126-963-11 s ELECT 4.7uF 20% 50V
C458 1-126-947-11 s ELECT 47uF 20% 35V	C601 1-162-915-11 s CERAMIC, CHIP 10PF 50V
C459 1-162-917-11 s CERAMIC, CHIP 15PF 5% 50V	C602 1-162-915-11 s CERAMIC, CHIP 10PF 50V
C460 1-163-020-00 s CERAMIC, CHIP 0.0082uF 10% 50V	C603 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
C461 1-163-137-00 s CERAMIC, CHIP 680PF 5% 50V	C605 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
C462 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V	C606 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V

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Ref. No. or Q'ty Part No. SP Description or Q'ty Part No. SP D
1-102-99L-11   S EERAMIC, CHIP 0.047uF 50V   C225   1-103-035-00 S CERAMIC, CHIP 0.047uF 50V   C261   1-103-035-00 S CERAMIC, CHIP 0.047uF 50V   C261   C2
1-163-035-00   CERANIC, CHIP   0.047uF 50V   CB27   1-162-091-11   CERANIC, CHIP   0.047uF 50V   CB28   1-163-275-11   CERANIC, CHIP   0.001uF 5   55   50V   CB26   1-163-035-00   CERANIC, CHIP   0.047uF 50V   CB29   1-162-910-11   CERANIC, CHIP   0.001uF 5   55   50V   CB26   1-163-035-00   CERANIC, CHIP   0.047uF 50V   CB29   1-162-910-11   CERANIC, CHIP   0.001uF 5   55   50V   CB29   1-162-910-11   CERANIC, CHIP   0.047uF 50V   CB29   1-162-910-11   CERANIC, CHIP   0.047uF 50V   CB29   1-124-916-11   CERANIC, CHIP   0.047uF 50V   CB29   1-124-916-11   CERANIC, CHIP   0.047uF 50V   CB20   1-163-035-00   CERANIC, CHIP   0.047uF 50V   C953   1-124-916-11   CERANIC, CHIP   0.047uF 50V   CB20   1-163-035-00   CERANIC, CHIP   0.047uF 50V   C955   1-163-035-00   CERANIC, CHIP   0.047uF 50V   CB20   1-163-035-00   CERANIC, CHIP   0.047uF 50
1-135-135-22   TANTALIM, CHIP 4.7uF 10% 16V
1-163-035-00   S CERAMIC, CHIP 0.047uF 50V   C958   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C962   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C962   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C961   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C962   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C962   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C962   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C963   1-135-211-11   S CARAMIC, CHIP 0.047uF 50V   C964   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C964   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C965   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C966   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C967   1-130-487-03   MYLAR 0.022uF 5% 50V   C967   1-130-487-03   MYLAR 0.022uF 5% 50V   C967   1-130-487-03   MYLAR 0.022uF 5% 50V   C969   1-163-035-03   S CERAMIC, CHIP 0.047uF 50V   C965   1-163-035-03   S CERAMIC, CHIP 0.047u
1-135-211-11   STANTALUM, CHIP 6.8uF 20% 6.3V
Total
C713
C715 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V D601 8-719-941-86 s DIODE DAP202U D602 8-719-941-09 s DIODE DAP202U D603 8-719-941-09 s DIODE DAP202U D603 8-719-941-09 s DIODE DAP202U D603 8-719-941-09 s DIODE DAP202U D604 8-719-941-86 s DIODE DAP202U D704 8-719-941-86 s DIODE DAP202U D704 8-719-941-86 s DIODE DAP202U D705 8-719-941-09 s DIODE DAP202U D705 8-719-941-09 s DIODE DAP202U D706 8-719-941-09 s DIODE DAP202U D706 8-719-941-86 s DIODE DAP202U D706 8-719-941-86 s DIODE DAP202U D707 8-713-300-88 s DIODE DAP202U D707 8-713-300-88 s DIODE DAP202U D708 8-719-941-09 s DIODE DAP202U D709 8-713-300-88 s DIOD
C717 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C718 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V C719 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C720 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C721 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C721 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C722 1-162-915-11 s CERAMIC, CHIP 10PF 50V C801 1-163-035-00 s CERAMIC, CHIP 10PF 50V C803 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C803 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C805 1-163-133-00 s CERAMIC, CHIP 0.047uF 50V C806 1-163-035-00 s CERAMIC, CHIP 470PF 5% 50V C807 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V C808 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C809 1-162-970-11 s CERAMIC, C
C720 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V D606 8-719-941-86 s DIODE DAN202U C721 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V D701 8-713-300-88 s DIODE 1T33C-01 D801 8-719-941-09 s DIODE DAP202U C722 1-162-915-11 s CERAMIC, CHIP 10PF 50V D802 8-713-300-88 s DIODE 1T33C-01 C801 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C803 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V FL401 1-235-900-11 s FILTER, LOW-PASS 13kHz C805 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V FL402 1-235-900-11 s FILTER, LOW-PASS 13kHz C806 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V FL501 1-235-900-11 s FILTER, LOW-PASS 13kHz C807 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V C808 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V IC301 8-759-925-97 s IC SN74HC86ANS
C801 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C803 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C805 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V C806 1-163-035-00 s CERAMIC, CHIP 470PF 5% 50V C807 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V C808 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C809 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C808 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V IC301 8-759-925-97 s IC SN74HC86ANS
C809 1-162-918-11 s CERAMIC, CHIP 18PF 5% 50V IC401 8-759-700-43 s IC NJM4558M C810 1-162-918-11 s CERAMIC, CHIP 18PF 5% 50V IC402 8-752-009-90 s IC CX20099 C811 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V IC403 8-759-700-43 s IC NJM4558M IC404 8-752-322-57 s IC CXD1077M
C812 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C813 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V IC405 8-759-929-26 s IC TL431CPS C814 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V IC406 8-752-322-57 s IC CXD1077M C815 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V IC407 8-759-929-26 s IC TL431CPS C816 1-162-913-11 s CERAMIC 8PF 50V IC408 8-759-700-43 s IC NJM4558M IC409 8-752-009-90 s IC CX20099
C817 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C818 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V IC410 8-759-603-27 s IC M5201FP C819 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V IC501 8-759-700-43 s IC NJM4558M C820 1-124-499-11 s ELECT, NONPOLAR 1uF 20% 50V IC503 8-759-700-43 s IC NJM4558M

(AU-157AP BOARD)	(AU-157AP	BOARD)		
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty P	art No.	SP Description	ı
IC508 8-759-700-43 s IC NJM4558M IC510 8-759-603-27 s IC M5201FP IC601 8-759-149-34 s IC UPD75106G-591-1B IC603 8-759-300-71 s IC HD14053BFP IC604 8-752-324-45 s IC CXD1066Q-Z	Q611 8 Q612 8 Q613 8	3-729-905-18 3-729-905-18 3-729-905-18	s TRANSISTOR s TRANSISTOR s TRANSISTOR s TRANSISTOR s TRANSISTOR	DTC144EU DTC144EU DTC144EU
IC605 8-759-972-13 s IC CF77309FR IC606 8-752-835-09 s IC CXP5084H-645Q IC607 8-759-054-79 s IC CF77499PG IC608 8-759-176-00 s IC CXD8369AQ IC609 8-759-926-77 s IC SN74HC541NS	0802 8 0803 8 0806 8	3-729-117-16 3-729-117-72 3-729-907-00	s TRANSISTOR s TRANSISTOR s TRANSISTOR s TRANSISTOR	2SA1611-M6 2SC4178 DTC114EU
IC610 8-759-926-77 s IC SN74HC541NS IC611 8-759-925-90 s IC SN74HC74NS IC612 8-759-239-58 s IC TC74HC221AF IC613 8-759-926-18 s IC SN74HC157ANS IC701 8-752-010-20 s IC CX20102	R402 1 R403 1 R404 1 R405 1	-216-820-11 -216-822-11 -216-825-11 -216-821-11	S METAL, CHIP S METAL, CHIP S METAL, CHIP S METAL, CHIP	
IC701 8-752-010-20 S IC CX20102  IC702 8-752-332-46 S IC CXD1208Q IC703 8-752-331-00 S IC CXK5864BM-12L IC704 8-759-926-18 S IC SN74HC157ANS IC705 8-759-926-18 S IC SN74HC157ANS IC706 8-759-926-18 S IC SN74HC157ANS IC801 8-752-010-20 S IC CX20102 IC802 8-752-332-46 S IC CXD1208Q IC803 8-752-331-00 S IC CXK5864BM-12L	R407 1 R408 1 R409 1 R410 1	-216-829-11 -216-833-11 -216-826-11 -216-819-11	S METAL, CHIP S METAL, CHIP S METAL, CHIP S METAL, CHIP	10K 5% 1/16W 4.7K 5% 1/16W 10K 5% 1/16W 2.7K 5% 1/16W 680 5% 1/16W
IC801 8-752-010-20 s IC CX20102 IC802 8-752-332-46 s IC CXD1208Q IC803 8-752-331-00 s IC CXK5864BM-12L	R412 1 R413 1 R414 1	-216-834-11 -216-827-11 -216-827-11	s METAL, CHIP s METAL, CHIP s METAL, CHIP	3.9K 5% 1/16W 12K 5% 1/16W 3.3K 5% 1/16W 3.3K 5% 1/16W 2.7K 5% 1/16W
L402 1-410-658-31 s INDUCTOR, CHIP 220uH L403 1-410-658-31 s INDUCTOR, CHIP 220uH L601 1-410-393-11 s INDUCTOR CHIP 100uH L603 1-410-393-11 s INDUCTOR CHIP 100uH L604 1-410-393-11 s INDUCTOR CHIP 100uH		-216-823-11 -216-822-11 -216-823-11 -216-823-11	S METAL, CHIP S METAL, CHIP S METAL, CHIP S METAL, CHIP	1.5K 5% 1/16W 1.2K 5% 1/16W 1.5K 5% 1/16W 1.5K 5% 1/16W 39K 5% 1/16W
L606 1-410-393-11 s INDUCTOR CHIP 100uH L607 1-410-393-11 s INDUCTOR CHIP 100uH L608 1-410-381-11 s INDUCTOR CHIP 10uH L701 1-410-393-11 s INDUCTOR CHIP 100uH L702 1-410-393-11 s INDUCTOR CHIP 100uH	R422 1 R423 1 R424 1 R425 1	-216-835-11 -216-825-11 -216-825-11 -216-826-11	s METAL, CHIP s METAL, CHIP s METAL, CHIP	15K 5% 1/16W 2.2K 5% 1/16W 2.2K 5% 1/16W 2.7K 5% 1/16W
L703 1-410-393-11 s INDUCTOR CHIP 100uH L704 1-408-970-21 s INDUCTOR 10uH L705 1-410-393-11 s INDUCTOR CHIP 100uH L801 1-410-393-11 s INDUCTOR CHIP 100uH L802 1-410-393-11 s INDUCTOR CHIP 100uH	R428 1 R429 1 R430 1 R431 1	-216-816-11 -218-285-11 -216-826-11 -216-822-11	S METAL, CHIP S METAL, CHIP S METAL, CHIP S METAL, CHIP	390 5% 1/16W
L803 1-410-393-11 s INDUCTOR CHIP 100uH L804 1-408-970-21 s INDUCTOR 10uH L805 1-410-393-11 s INDUCTOR CHIP 100uH L952 1-408-978-21 s INDUCTOR 47uH L953 1-408-978-21 s INDUCTOR 47uH	R435 1 R436 1 R437 1 R438 1	-218-768-11 -216-814-11 -216-049-00 -216-829-11	s METAL 470K s METAL, CHIF s METAL, CHIF	0.5% 1/10W 270 5% 1/16W 1K 5% 1/10W 4.7K 5% 1/16W
L954 1-412-533-21 s INDUCTOR, 47uH L955 1-412-533-21 s INDUCTOR, 47uH L956 1-412-533-21 s INDUCTOR, 47uH	R441 1	-216-821-11	s METAL, CHIP	
Q401 8-729-209-07 s TRANSISTOR 2SC4213-B Q402 8-729-209-07 s TRANSISTOR 2SC4213-B Q501 8-729-209-07 s TRANSISTOR 2SC4213-B	R443 1	-218-285-11	s METAL, CHIE	390 5% 1/16W 75 5% 1/16W 680K 5% 1/16W
Q502 8-729-209-07 s TRANSISTOR 2SC4213-B Q602 8-729-905-18 s TRANSISTOR DTC144EU	R446 1 R448 1	-216-822-11 -216-811-11	s METAL, CHIF s METAL, CHIF	2.7K 5% 1/16W 1.2K 5% 1/16W 150 5% 1/16W
Q603 8-729-905-18 s TRANSISTOR DTC144EU Q604 8-729-905-18 s TRANSISTOR DTC144EU Q605 8-729-209-07 s TRANSISTOR 2SC4213-B Q606 8-729-905-12 s TRANSISTOR DTA144EU	R450 1	-216-822-11	s METAL, CHIF	9 820 5% 1/16W 9 1.2K 5% 1/16W 9 2.2K 5% 1/16W
Q607 8-729-905-18 s TRANSISTOR DTC144EU Q608 8-729-905-18 s TRANSISTOR DTC144EU Q609 8-729-905-12 s TRANSISTOR DTA144EU	R452 1 R453 1 R454 1	-216-818-11 -216-834-11 -216-832-11	s METAL, CHIF s METAL, CHIF s METAL, CHIF	9 560 5% 1/16W 9 12K 5% 1/16W 9 8.2K 5% 1/16W 9 10K 5% 1/16W

Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
R457 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R458 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R459 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W R460 1-216-819-11 s METAL, CHIP 680 5% 1/16W R461 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R561 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R562 1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W R563 1-216-834-11 s METAL, CHIP 12K 5% 1/16W R565 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R565
R462 1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W R463 1-216-834-11 s METAL, CHIP 12K 5% 1/16W R464 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R465 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R466 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W	R566 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W R567 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R568 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R570 1-216-817-11 s METAL, CHIP 47O 5% 1/16W R576 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R467 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R468 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R469 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W R470 1-216-817-11 s METAL, CHIP 470 5% 1/16W R471 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W	R577 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R601 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R602 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R603 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R604 1-216-035-00 s METAL, CHIP 270 5% 1/10W
R472 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R473 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R474 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R475 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R476 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W	R605 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R606 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R607 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R610 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R610
R477 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R501 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R502 1-216-820-11 s METAL, CHIP 820 5% 1/16W R503 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W R504 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R611 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R612 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R613 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R614 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R615 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R505 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R506 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R507 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R508 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R509 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W	R616 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R617 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R618 1-216-836-11 s METAL, CHIP 18K 5% 1/16W R619 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R620 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R510 1-216-819-11 s METAL, CHIP 680 5% 1/16W R511 1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W R512 1-216-834-11 s METAL, CHIP 12K 5% 1/16W R513 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R514 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W	R621 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R622 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R623 1-216-817-11 s METAL, CHIP 47O 5% 1/16W R624 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R625 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R515 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W R516 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W R517 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W R518 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W R519 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W	R626 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R627 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R628 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R629 1-216-845-11 s METAL, CHIP 10K 5% 1/16W R630 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R520 1-216-840-11 s METAL, CHIP 39K 5% 1/16W R522 1-216-835-11 s METAL, CHIP 15K 5% 1/16W R523 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R524 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R525 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W	R631 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R632 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R633 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R634 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R635 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R536 1-216-814-11 s METAL, CHIP 270 5% 1/16W R538 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R540 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W R541 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R549 1-216-820-11 s METAL, CHIP 820 5% 1/16W	R636 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R637 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R638 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R639 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R640 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R550 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W R552 1-216-818-11 s METAL, CHIP 560 5% 1/16W R553 1-216-834-11 s METAL, CHIP 12K 5% 1/16W R554 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W R556 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R641 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R642 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R643 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R644 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R645 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R557 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R558 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R559 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W R560 1-216-819-11 s METAL, CHIP 680 5% 1/16W	R646 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R647 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R648 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R649 1-216-841-11 s METAL, CHIP 47K 5% 1/16W

#### (AU-157AP BOARD)

Ref. No. or Q'ty Part No. SP Description 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-035-00 s METAL, CHIP 270 5% 1/10W R650 R651 R652 R653 R654 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-035-00 s METAL, CHIP 270 5% 1/10W R655 R656 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R657 R658 R659 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-035-00 s METAL, CHIP 270 5% 1/10W R660 R661 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-035-00 s METAL, CHIP 270 5% 1/10W R662 R663 R664 1-216-035-00 s METAL, CHIP 270 5% 1/10W R665 R668 R669 R670 R671 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-035-00 s METAL R672 R673 R674 R675 R676 1-216-035-00 s METAL, CHIP 270 5% 1/10W R677 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R678 R679 R680 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R681 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R683 R686 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R687 R688 R689 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-247-887-11 s CARBON 220K 5% 1/4W R690 R691 R701 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-818-11 s METAL, CHIP 560 5% 1/16W R702 R703 R704 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-847-11 s METAL, CHIP 150K 5% 1/16W R705 R706 R707 R708 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-846-11 s METAL, CHIP 120K 5% 1/16W R709 R710 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-864-11 s METAL, CHIP 0 5% 1/16W 1-216-803-11 s METAL, CHIP 33 5% 1/16W R711 R718 R720 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R721 R722 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R723 R724 R801 R802 216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-864-11 s METAL, CHIP 0 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R803 R804 R805

#### (AU-157AP BOARD)

Ref. No. or Q'ty Part No. SP Description 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-864-11 s METAL, CHIP 0 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R806 R808 R809 R810 R811 1-216-819-11 s METAL, CHIP 680 5% 1/16W 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W 1-216-818-11 s METAL, CHIP 560 5% 1/16W R814 R815 R816 R817 R818 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R819 R820 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-820-11 s METAL, CHIP 820 5% 1/16W R821 R822 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R823 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-847-11 s METAL, CHIP 150K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-810-11 s METAL, CHIP 120 5% 1/16W R824 R825 R826 R827 R828 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-846-11 s METAL, CHIP 120K 5% 1/16W R829 R830 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R831 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R832 R833 1-216-864-11 s METAL, CHIP 0 5% 1/16W R890 1-216-839-11 s METAL, CHIP 33K 5% 1/16W R900 1-218-738-11 s METAL, CHIP 82K 0.5% 1/16W RV402 1-238-803-11 s RES, ADJ METAL 20K 1-238-785-21 s RES, ADJ, CERMET 2K 1-238-792-11 s RES, ADJ, CERMET 500K 1-238-803-11 s RES, ADJ METAL 20K 1-238-785-21 s RES, ADJ, CERMET 2K RV403 **RV408** RV502 RV503 RV701 1-237-515-21 s RES, ADJ METAL 1K 1-238-800-11 s RES, ADJ METAL 2K 1-238-803-11 s RES, ADJ METAL 20K **RV803 RV804** X601 1-567-519-21 s CRYSTAL 4.194304MHz 1-567-346-11 s RESONATOR, CERAMIC X602

CN-551P I	SUARU
Ref. No.	Part No. SP Description
1pc	1-642-953-14 o PRINTED CIRCUIT BOARD, CN-551
C1 C2 C3 C4 C5	1-163-038-91 s CERAMIC, CHIP 0.1uF 25V 1-126-189-11 s ELECT 0.22uF 20% 50V 1-126-191-11 s ELECT 0.47uF 20% 50V 1-126-603-11 s ELECT 4.7uF 20% 35V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
C6 C7	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
CN334	1-506-481-11 s CONNECTOR, 2P, MALE 1-564-014-11 s CONNECTOR, 4P, MALE 1-506-484-11 s CONNECTOR, 5P, MALE 1-506-481-11 s CONNECTOR, 2P, MALE 1-506-477-11 s CONNECTOR, 12P, MALE
CN336 CN337 CN338 CN339 CN340	1-506-473-11 o CONNECTOR, 8P, MALE 1-506-475-11 s CONNECTOR, 10P, MALE 1-564-009-11 o CONNECTOR, 10P, MALE 1-506-476-11 s CONNECTOR, 11P, MALE 1-506-480-11 o CONNECTOR, 15P, MALE
CN3/12	1-506-483-21 s CONNECTOR, 4P, MALE 1-506-483-21 s CONNECTOR, 4P, MALE 1-565-211-11 o CONNECTOR, FPC (ZIF) 22P, FEMALE 1-566-527-11 s CONNECTOR, FPC (ZIF) 11P, FEMALE 1-566-531-11 s CONNECTOR, FPC (ZIF) 15P, FEMALE
CN346 CN347 CN348	1-564-014-11 s CONNECTOR, 4P, MALE 1-506-481-11 s CONNECTOR, 2P, MALE 1-506-471-11 s CONNECTOR, 6P, MALE
IC1 IC2	8-759-107-68 s IC CX20115A 8-759-701-97 s IC NJM4562M
R3 R4 R5	1-218-750-11 s METAL, CHIP 270K 0.50% 1/16W 1-218-716-11 s METAL, CHIP 10K 0.50% 1/16W
R10	1-216-854-11 s METAL, CHIP 560K 5% 1/16W 1-216-854-11 s METAL, CHIP 560K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W
RV1	1-228-470-00 s RES, ADJ METAL 500

Or Q'ty Part No. SP Description  1pc 1-642-967-11 o PRINTED CIRCUIT BOARD, CP-176 1pc 3-683-631-01 o CLAMP 1pc 1-543-793-11 s FILTER, CLAMP (FERRITE CORE)  C1 1-161-772-11 s CERAMIC 0.1uF 10% 25V  CN1001 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1002 1-573-583-11 s CONNECTOR, BNC, FEMALE CN1003 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1004 1-573-602-11 s CONNECTOR, BNC, FEMALE CN1005 1-691-273-11 s JACK, PIN 1P  CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMAL CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W R2 1-215-394-00 s METAL 75 1% 1/6W R3 1-215-394-00 s METAL 75 1% 1/6W R7 1-215-394-00 s METAL 75 1% 1/6W R7 1-215-394-00 s METAL 75 1% 1/6W R7 1-215-394-00 s METAL 75 1% 1/6W	Ref. No.	Double No. CD Decomination
C1 1-161-772-11 s CERAMIC 0.1uF 10% 25V  CN1001 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1002 1-573-583-11 s CONNECTOR, BNC, FEMALE CN1003 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1004 1-573-602-11 s CONNECTOR 8P (MONITOR), FEMALE CN1005 1-691-273-11 s JACK, PIN 1P  CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMAL CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W	or Vity	Part No. SP Description
C1 1-161-772-11 s CERAMIC 0.1uF 10% 25V  CN1001 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1002 1-573-583-11 s CONNECTOR, BNC, FEMALE CN1003 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1004 1-573-602-11 s CONNECTOR 8P (MONITOR), FEMALE CN1005 1-691-273-11 s JACK, PIN 1P  CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMAL CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W	1pc	1-642-967-11 o PRINTED CIRCUIT BOARD, CP-176
C1 1-161-772-11 s CERAMIC 0.1uF 10% 25V  CN1001 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1002 1-573-583-11 s CONNECTOR, BNC, FEMALE CN1003 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1004 1-573-602-11 s CONNECTOR 8P (MONITOR), FEMALE CN1005 1-691-273-11 s JACK, PIN 1P  CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMAL CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W	1pc	3-683-631-01 o CLAMP
CN1001 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1002 1-573-583-11 s CONNECTOR, BNC, FEMALE CN1003 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1004 1-573-602-11 s CONNECTOR 8P (MONITOR), FEMALE CN1005 1-691-273-11 s JACK, PIN 1P  CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMALE CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMALE CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMALE CN1011 1-215-394-00 s METAL 75 1% 1/6W	1pc	1-543-793-11 S FILTER, CLAMP (FERRITE CURE)
CN1002 1-573-583-11 s CONNECTOR, BNC, FEMALE CN1003 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1004 1-573-602-11 s CONNECTOR BP (MONITOR), FEMALE CN1005 1-691-273-11 s JACK, PIN 1P  CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMALE CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-215-394-00 s METAL 75 1% 1/6W	C1	1-161-772-11 s CERAMIC 0.1uF 10% 25V
CN1002 1-573-583-11 s CONNECTOR, BNC, FEMALE CN1003 1-573-582-11 s CONNECTOR, BNC, FEMALE CN1004 1-573-602-11 s CONNECTOR BP (MONITOR), FEMALE CN1005 1-691-273-11 s JACK, PIN 1P  CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMALE CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-215-394-00 s METAL 75 1% 1/6W	CN1001	1-573-582-11 s CONNECTOR, BNC, FEMALE
CN1004 1-573-602-11 s CONNECTOR 8P (MONITOR), FEMAL CN1005 1-691-273-11 s JACK, PIN 1P  CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMAL CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W	CN1002	1-573-583-11 s CONNECTOR, BNC, FEMALE
CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMAL CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W	CN1003	1-573-582-11 s CONNECTOR, BNC, FEMALE
CN1006 1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMAL CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W	CN1004	1-573-602-11 s CONNECTOR 8P (MONITOR), FEMALE
CN1008 1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W 1-215-394-00 s METAL 75 1% 1/6W	CN1005	1-691-2/3-11 s JACK, PIN IP
CN1010 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W		
CN1011 1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMAL R1 1-215-394-00 s METAL 75 1% 1/6W R2 1-215-394-00 s METAL 75 1% 1/6W	CN1008	1-695-195-11 s CONNECTOR, CIRCULAR 7P, MALE
R1 1-215-394-00 s METAL 75 1% 1/6W	CN1010	1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMALE
R1 1-215-394-00 s METAL 75 1% 1/6W R2 1-215-394-00 s METAL 75 1% 1/6W R3 1-215-394-00 s METAL 75 1% 1/6W	CN1011	1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMALE
R2 1-215-394-00 s METAL 75 1% 1/6W R3 1-215-394-00 s METAL 75 1% 1/6W	R1	1-215-394-00 s METAL 75 1% 1/6W
R3 1-215-394-00 s METAL 75 1% 1/6W	R2	1-215-394-00 s METAL 75 1% 1/6W
	R3	1-215-394-00 s METAL 75 1% 1/6W
R5 1-215-394-00 S METAL /5 1% 1/6W	R5	1-215-394-00 s METAL 75 1% 1/6W
R7 1-215-394-00 s METAL 75 1% 1/6W	R7	1-215-394-00 s METAL 75 1% 1/6W
R8 1-215-394-00 s METAL 75 1% 1/6W	R8	1-215-394-00 s METAL 75 1% 1/6W
S1 1-570-145-11 s SWITCH, SLIDE	S1	1-570-145-11 s SWITCH, SLIDE

### CP-177 BOARD

R6 R9 R10

S1051 S1052

Ref. No. or Q'ty Part No. SP Description 1-642-968-12 o PRINTED CIRCUIT BOARD, CP-177 1pc 3-683-631-01 o CLAMP 1pc 1-573-594-11 s CONNECTOR, XLR 3P, FEMALE 1-573-593-11 s CONNECTOR, XLR 3P, MALE CN1051 CN1052 CN1053 CN1054 CN1055 1-573-593-11 s CONNECTOR, XLR 3P, MALE 1-573-593-11 s CONNECTOR, XLR 3P, MALE 1-573-593-11 s CONNECTOR, XLR 3P, MALE CN1056 CN1057 CN1058 1-249-415-11 s CARBON 680 5% 1/4W 1-247-855-31 s CARBON 10K 5% 1/4W 1-249-415-11 s CARBON 680 5% 1/4W R2 R3 1-247-855-31 s CARBON 10K 5% 1/4W 1-249-415-11 s CARBON 680 5% 1/4W R4 R5

> 1-247-855-31 s CARBON 10K 5% 1/4W 1-249-415-11 s CARBON 680 5% 1/4W 1-247-855-31 s CARBON 10K 5% 1/4W

1-570-145-11 s SWITCH, SLIDE 1-570-145-11 s SWITCH, SLIDE

### CR-40 BOARD

Ref. No. or Q'ty Part No. SP Description

	•
1pc	A-8276-234-A o MOUNTED CIRCUIT BOARD, CR-40
C365	1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C366	1-135-165-11 s TANTALUM 33uF 20% 16V
C367	1-135-165-11 s TANTALUM 33uF 20% 16V
C368	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
C369	1-164-346-11 s CERAMIC 1uF 16V
C370	1-135-227-11 s TANTAL 100uF 20% 6.3V
C371	1-135-227-11 s TANTAL 100uF 20% 6.3V
C372	1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C373	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
C374	1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C375	1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C376	1-135-165-11 s TANTALUM 33uF 20% 16V
CN11	1-566-096-11 s CONNECTOR, BB 12P, MALE
IC23	8-759-030-55 s IC MC1496M
L87	1-408-785-21 s INDUCTOR CHIP 47uH
L88	1-408-785-21 s INDUCTOR CHIP 47uH
Q141	8-729-120-28 s TRANSISTOR 2SC1623-L5L6
Q142	8-729-905-18 s TRANSISTOR DTC144EU
Q143	8-729-905-18 s TRANSISTOR DTC144EU
Q144	8-729-120-28 s TRANSISTOR 2SC1623-L5L6
R464	1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R465	1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R466	1-216-845-11 s METAL, CHIP 100K 5% 1/16W
R467	1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R468	1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R469	1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R470	1-218-289-11 s METAL, CHIP 510 5% 1/16W
R471	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R472	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R473	1-218-289-11 s METAL, CHIP 510 5% 1/16W
R474	1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R475	1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R476	1-218-272-11 s METAL, CHIP 5.1K 5% 1/16W
R477	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R478	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R479	1-216-809-11 s METAL, CHIP 100 5% 1/16W
R480	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R709	1-216-821-11 s METAL, CHIP 1K 5% 1/16W
RV18	1-241-262-11 s RES, ADJ, CERMET 2K
RV19	1-241-262-11 s RES, ADJ, CERMET 2K
RV20	1-241-262-11 s RES, ADJ, CERMET 2K
RV21	1-241-261-41 s RES, ADJ, CERMET 1K

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CR-41 BOARD
Ref. No.
or Q'ty
               Part No.
                                    SP Description
               A-8276-244-A o MOUNTED CIRCUIT BOARD, CR-41
1pc
               1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-135-165-11 s TANTALUM 33uF 20% 16V
1-135-165-11 s TANTALUM 33uF 20% 16V
1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
C422
C423
C424
C425
C427
               1-135-227-11 s TANTAL 100uF 20% 6.3V
               1-135-227-11 s TANTAL 100uF 20% 6.3V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C428
C429
C430
C431
C432
               1-135-165-11 s TANTALUM 33uF 20% 16V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V
C433
C434
C435
               1-566-096-11 s CONNECTOR, BB 12P, MALE 1-566-096-11 s CONNECTOR, BB 12P, MALE
CN11
CN12
IC23
               8-759-030-55 s IC MC1496M
               8-759-030-55 s IC MC1496M
IC29
               1-410-389-31 s INDUCTOR CHIP 47uH
1-410-389-31 s INDUCTOR CHIP 47uH
196
1.97
               8-729-120-28 s TRANSISTOR 2SC1623-L5L6
0156
Q157
               8-729-905-18 s TRANSISTOR DTC144EU
0158
               8-729-905-18 s TRANSISTOR DTC144EU
               8-729-120-28 s TRANSISTOR 2SC1623-L5L6
0159
               8-729-120-28 s TRANSISTOR 2SC1623-L5L6
0160
Q161
               8-729-120-28 s TRANSISTOR 2SC1623-L5L6
R528
               1-216-837-11 s METAL, CHIP 22K 5% 1/16W
               1-216-837-11 S METAL, CHIP 22K 5% 1/16W
1-216-845-11 S METAL, CHIP 100K 5% 1/16W
1-216-833-11 S METAL, CHIP 10K 5% 1/16W
1-216-821-11 S METAL, CHIP 10K 5% 1/16W
R529
R530
R531
R532
R533
               1-216-821-11 s METAL, CHIP 1K 5% 1/16W
               1-210-821-11 S METAL, CHIP IN 5% 1/16W
1-216-829-11 S METAL, CHIP 4.7K 5% 1/16W
1-218-289-11 S METAL, CHIP 510 5% 1/16W
1-216-829-11 S METAL, CHIP 4.7K 5% 1/16W
1-218-289-11 S METAL, CHIP 510 5% 1/16W
R534
R535
R536
R537
               1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R538
R539
               1-218-272-11 S METAL, CHIP 5.1K 5% 1/16W
1-218-825-11 S METAL, CHIP 2.2K 5% 1/16W
1-216-825-11 S METAL, CHIP 2.2K 5% 1/16W
R540
R541
R542
R543
               1-216-809-11 s METAL, CHIP 100 5% 1/16W
               1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R544
R545
               1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W
1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R546
R547
R548
                1-216-809-11 s METAL, CHIP 100 5% 1/16W
               1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-809-11 s METAL, CHIP 100 5% 1/16W
R707
R708
                1-241-262-11 s RES, ADJ, CERMET 2K
RV23
RV24
                1-241-262-11 s RES, ADJ, CERMET 2K
               1-241-262-11 s RES, ADJ, CERMET 2K
1-241-261-41 s RES, ADJ, CERMET 1K
1-241-261-41 s RES, ADJ, CERMET 1K
RV25
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Ref. No. or Q'ty Part No. SP Description 1-643-015-12 o PRINTED CIRCUIT BOARD, DC-57 1pc 7-621-759-65 s SCREW +PSW 2.6x8 3-334-236-01 s SHEET, INSULATING 2-371-561-01 s BUSHING (P), INSULATING 7-682-947-01 s SCREW +PSW 3x6 2pcs 1pc 1pc 1pc C1 1-124-898-11 s ELECT 4700uF 20% 16V 1-124-360-00 s ELECT 1000uF 20% 16V 1-124-360-00 s ELECT 1000uF 20% 16V 1-124-472-11 s ELECT 470uF 20% 10V C2 C3 C4 1-161-055-00 s CERAMIC 0.022uF 10% 50V C5

 $c_6$ 1-161-055-00 s CERAMIC 0.022uF 10% 50V 1-124-477-11 s ELECT 47uF 20% 25V 1-124-477-11 s ELECT 47uF 20% 25V 1-126-939-11 s ELECT 10000uF 20% 10V C7 **C8** C9 CN261

1-564-210-00 o CONNECTOR, IL-S 12P, MALE 1-564-706-11 o CONNECTOR, 4P, MALE 1-564-708-11 o CONNECTOR 6P, MALE 1-564-710-11 s PIN HEADER, STRAIGHT 8P 1-564-209-00 o CONNECTOR, IL-S 10P, MALE CN262 CN263 CN264 CN265

8-719-200-02 s DIODE 10E2

DC-57P BOARD

1-410-858-21 o INDUCTOR, MICRO SALL TYPE 1-410-858-21 o INDUCTOR, MICRO SALL TYPE 1-410-858-21 o INDUCTOR, MICRO SALL TYPE FB1 FR2 FB3

8-759-701-75 s IC NJM7805FA IC1

8-729-382-64 s TRANSISTOR 2SC1826-G

R1 1-215-907-11 s METAL, CHIP 22 10% 3W

RV26 **RV27** 

#### DD-12 BOARD Ref. No. or Q'ty Part No. SP Description A-7061-772-A o MOUNTED CIRCUIT BOARD, DD-12 1-535-699-11 s CABLE, JUMPER 23P $\,$ 1pc 1pc 1-124-472-11 s ELECT 470uF 20% 10V C301 1-506-489-11 o CONNECTOR 10P, MALE CN751 CN752 1-506-491-11 o CONNECTOR, 12P, MALE 8-719-911-19 s DIODE 1SS119 8-719-911-19 s DIODE 1SS119 D1 D321 8-759-645-16 s IC M54516P 8-759-645-16 s IC M54516P IC2 IC3 8-729-903-02 s TRANSISTOR DTA143XS Q308 Q309 8-729-903-02 s TRANSISTOR DTA143XS **Q310** 8-729-903-02 s TRANSISTOR DTA143XS Q311 8-729-903-02 s TRANSISTOR DTA143XS 8-729-903-02 s TRANSISTOR DTA143XS Q312 8-729-903-02 s TRANSISTOR DTA143XS 8-729-903-02 s TRANSISTOR DTA143XS Q313 Q314 R366 1-249-402-11 s CARBON 56 5% 1/4W R367 R368 R369 R370 1-249-402-11 s CARBON 56 5% 1/4W 1-249-402-11 s CARBON 56 5% 1/4W R371 R372 1-516-995-00 s SWITCH, LEVER SLIDE 1-552-539-00 s SWITCH, TACTILE S1009 S1010

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Ref. No. or Q'ty	Part No. SP	Description
1pc 2pcs 5pcs	2-251-622-11 s	MOUNTED CIRCUIT BOARD, DM-92 LEVER, PC BOARD PRINTED CIRCUIT BOARD, DUS-194
C3 C5	1-164-232-11 s 1-164-232-11 s 1-163-809-11 s	ELECT 22uF 20% 63V CERAMIC 0.01uF 10% 100V CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 0.047uF 10% 25V CERAMIC, CHIP 270PF 5% 50V
C8 C9 C10 C12 C13	1-163-145-00 s 1-163-127-00 s 1-163-235-11 s	CERAMIC, CHIP 33PF 5% 50V CERAMIC, CHIP 0.0015uF 5% 50V CERAMIC, CHIP 270PF 5% 50V CERAMIC, CHIP 22PF 5% 50V CERAMIC, CHIP 39PF 5% 50V
C14 C15 C16 C17 C18	1-163-257-11 s 1-163-241-11 s 1-163-245-11 s	CERAMIC, CHIP 0.047uF 10% 25V CERAMIC, CHIP 180PF 5% 50V CERAMIC, CHIP 39PF 5% 50V CERAMIC 56PF 5% 50V CERAMIC 56PF 5% 50V
	1-164-232-11 s 1-164-232-11 s 1-126-964-11 s	CERAMIC, CHIP 47PF 5% 50V CERAMIC 0.01uF 10% 100V CERAMIC 0.01uF 10% 100V ELECT 10uF 20% 50V CERAMIC 0.01uF 10% 100V
C36 C39 C43 C54 C60	1-163-038-91 s 1-163-038-91 s 1-162-999-11 s	CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 0.1uF 25V CERAMIC, CHIP 0.1uF 25V CERAMIC, CHIP 91PF 5% 50V CERAMIC, CHIP 0.1uF 25V
C75 C76 C77 C78 C79	1-164-232-11 s 1-163-243-11 s 1-163-809-11 s	CERAMIC, CHIP 10PF 5% 50V CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 47PF 5% 50V CERAMIC, CHIP 0.047uF 10% 25V CERAMIC, CHIP 6PF 50V
C80 C81 C82 C83 C84	1-163-113-00 s 1-164-232-11 s 1-126-947-11 s	CERAMIC, CHIP 22PF 5% 50V CERAMIC, CHIP 68PF 5% 50V CERAMIC 0.01uF 10% 100V ELECT 47uF 20% 35V CERAMIC, CHIP 7PF 0.25PF 50V
C85 C86 C88 C89 C90	1-163-227-11 s 1-163-234-11 s 1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V CERAMIC, CHIP 10PF 5% 50V CERAMIC, CHIP 20PF 5% 50V CERAMIC, CHIP 0.047uF 10% 25V CERAMIC, CHIP 0.047uF 10% 25V
C91 C92 C93 C94 C96	1-163-809-11 s 1-163-037-91 s 1-163-227-11 s	CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 0.047uF 10% 25V CERAMIC, CHIP 0.022uF 10% 25V CERAMIC, CHIP 10PF 5% 50V CERAMIC 0.01uF 10% 100V
C97 C98 C99 C100 C101	1-163-087-00 s 1-163-099-00 s 1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V CERAMIC, CHIP 4PF 50V CERAMIC, CHIP 18PF 5% 50V CERAMIC, CHIP 0.047uF 10% 25V CERAMIC, CHIP 0.047uF 10% 25V
C111 C145 C146 C148 C149	1-163-115-00 s 1-126-947-11 s 1-163-091-00 s	CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 82PF 5% 50V ELECT 47uF 20% 35V CERAMIC, CHIP 8PF 50V CERAMIC, CHIP 11PF 5% 50V

DM-92 BOARD

C149

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(DM-92 BOARD)
(DM-92 BOARD)
                                                                                                                              Ref. No.
Ref. No.
or Q'ty Part No.
                                        SP Description
                                                                                                                              or Q'ty Part No.
                                                                                                                                                                     SP Description
                1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                                1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                              C253
C150
                                                                                                                              C254
C151
                                                                                                                                                1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                              C255
C152
C153
                                                                                                                              C256
                                                                                                                                                1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
                                                                                                                              C257
C154
                1-128-057-11 s ELECT 330uF 20% 6.3V 1-128-057-11 s ELECT 330uF 20% 6.3V
                                                                                                                                                1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-130-489-00 s MYLAR 0.033uF 5% 50V
C155
                                                                                                                              C258
                                                                                                                              C259
C156
                 1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                                                1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
1-163-137-00 s CERAMIC, CHIP 680PF 5% 50V
1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V
                                                                                                                              C260
C261
C157
C158
C159
                 1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                              C262
C160
                 1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                              C263
                                                                                                                                                1-164-232-11 s CERAMIC 0.01uF 10% 100V
                1-120-947-11 S ELECT 47UF 20% 35V

1-164-232-11 S CERAMIC 0.01uF 10% 100V

1-164-232-11 S CERAMIC 0.01uF 10% 100V

1-163-237-11 S CERAMIC, CHIP 27PF 5% 50V

1-163-091-00 S CERAMIC, CHIP 8PF 50V
                                                                                                                              C264
                                                                                                                                                1-126-933-11 s ELECT 100uF 20% 16V
C161
                                                                                                                                                1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-126-933-11 s ELECT 100uF 20% 16V
1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                              C265
C162
                                                                                                                              C266
C163
                                                                                                                              C267
C166
                                                                                                                                                1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
1-164-491-11 s CERAMIC 300PF 5% 50V
1-163-263-91 s CERAMIC, CHIP 330PF 5% 50V
                1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V
1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V
1-163-094-00 s CERAMIC, CHIP 11PF 5% 50V
1-163-096-00 s CERAMIC, CHIP 13PF 5% 50V
                                                                                                                              C268
C167
                                                                                                                              C269
C168
                                                                                                                              C270
C271
C169
C170
                                                                                                                              C273
C171
                1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                                1-163-131-00 s CERAMIC, CHIP 390PF 5% 50V
1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V
1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
                                                                                                                              C274
C172
                                                                                                                              C275
C173
                                                                                                                              C276
C277
C174
C175
                 1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                              C278
C176
C177
                 1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                              C279
                                                                                                                                                1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                               1-164-005-11 S CERAMIC, CHIP 0.47uF 25V

1-164-232-11 S CERAMIC 0.01uF 10% 100V

1-164-232-11 S CERAMIC 0.01uF 10% 100V
                1-104-232-11 S CERAMIC 3010F 10% 10

1-128-057-11 S ELECT 3300F 20% 6.3V

1-128-057-11 S ELECT 3300F 20% 6.3V

1-126-947-11 S ELECT 470F 20% 35V

1-126-964-11 S ELECT 100F 20% 50V
C178
                                                                                                                              C280
                                                                                                                              C281
C179
                                                                                                                              C282
C199
                                                                                                                                                1-126-933-11 s ELECT 100uF 20% 16V
C200
                                                                                                                              C283
                1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-126-933-11 s ELECT 100uF 20% 16V 1-126-933-11 s ELECT 100uF 20% 16V 1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                              C284
                                                                                                                                                1-126-964-11 s ELECT 10uF 20% 50V
C201
                                                                                                                              C285
                                                                                                                                                1-164-232-11 s CERAMIC 0.01uF 10% 100V
C202
                                                                                                                                                1-124-916-11 s ELECT 22uF 20% 63V
1-124-916-11 s ELECT 22uF 20% 63V
1-128-057-11 s ELECT 330uF 20% 6.3V
C203
                                                                                                                              C286
C204
                                                                                                                              C287
C228
                                                                                                                              C288
                                                                                                                                               1-128-057-11 s ELECT 330uF 20% 6.3V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
                 1-126-947-11 s ELECT 47uF 20% 35V
1-164-346-11 s CERAMIC 1uF 16V
1-126-947-11 s ELECT 47uF 20% 35V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                              C289
C290
C229
C230
C231
C232
                                                                                                                              C291
                                                                                                                              C309
C233
                 1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                              C310
                                                                                                                                                1-164-232-11 s CERAMIC 0.01uF 10% 100V
                 1-126-947-11 s ELECT 47uF 20% 35V
1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                                1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-126-947-11 s ELECT 47uF 20% 35V
C234
                                                                                                                              C311
C235
                                                                                                                              C312
                                                                                                                                                1-163-253-11 s CERAMIC, CHIP 120PF 5% 50V
C236
                                                                                                                              C317
                                                                                                                                                1-126-947-11 s ELECT 47uF 20% 35V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
C237
                 1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                              C325
                 1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                              C326
C238
C239
                 1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                              C327
                                                                                                                                                1-164-232-11 s CERAMIC 0.01uF 10% 100V
                 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
                                                                                                                                                1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
C240
                                                                                                                              C328
C241
                                                                                                                              C329
                                                                                                                                                1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-163-014-00 s CERAMIC 0.0027uF 10% 50V
                 1-126-964-11 s ELECT 10uF 20% 50V
1-164-346-11 s CERAMIC 1uF 16V
 C242
                                                                                                                              C330
C243
                                                                                                                              C331
                 1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                                            1-163-097-00 s CERAMIC. CHIP 15PF 5% 50V
C244
                                                                                                                              C332
                                                                                                                                                1-126-964-11 s ELECT 10uF 20% 50V
C245
                                                                                                                              C333
                                                                                                                                               1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-163-118-00 s CERAMIC, CHIP 110PF 5% 50V
1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
C246
                                                                                                                              C334
C247
                                                                                                                              C335
                 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C248
                                                                                                                              C336
                 1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                              C337
                                                                                                                                                1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V
C249
                 1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                                               1-124-925-11 s ELECT 2.2uF 20% 100V
1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
C250
                                                                                                                              C338
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C339

C340

1-126-964-11 s ELECT 10uF 20% 50V

C251

C252

Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
C341	1-126-963-11 s ELECT 4.7uF 20% 50V	C418	1-164-232-11 s CERAMIC 0.01uF 10% 100V
C342	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C419	1-126-947-11 s ELECT 47uF 20% 35V
C343	1-163-131-00 s CERAMIC, CHIP 390PF 5% 50V	C420	1-164-232-11 s CERAMIC 0.01uF 10% 100V
C344	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C421	1-164-232-11 s CERAMIC 0.01uF 10% 100V
C345	1-163-222-11 s CERAMIC, CHIP 5PF 50V	C435	1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V
C346 C347 C348 C349 C350	1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-126-947-11 s ELECT 47uF 20% 35V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-126-966-11 s ELECT 33uF 20% 50V	C437 C438 C439 C440 C441	1-126-947-11 s ELECT 47uF 20% 35V 1-126-947-11 s ELECT 47uF 20% 35V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V
C351	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C442	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
C352	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C455	1-163-135-00 s CERAMIC, CHIP 560PF 5% 50V
C353	1-126-964-11 s ELECT 10uF 20% 50V	C611	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
C354	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C612	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
C355	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C613	1-163-234-11 s CERAMIC, CHIP 20PF 5% 50V
C356 C357 C358 C359 C360	1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V 1-163-809-11 s CERAMIC. CHIP 0.047uF 10% 25V	C614 C705 C706 C707 C708	1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-126-947-11 s ELECT 47uF 20% 35V
C361	1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V  1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V  1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V  1-126-947-11 s ELECT 47uF 20% 35V  1-126-947-11 s ELECT 47uF 20% 35V  1-164-232-11 s CERAMIC 0.01uF 10% 100V	C709	1-164-232-11 s CERAMIC 0.01uF 10% 100V
C362		C710	1-126-947-11 s ELECT 47uF 20% 35V
C363		C711	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
C364		C712	1-128-057-11 s ELECT 330uF 20% 6.3V
C378		C713	1-128-057-11 s ELECT 330uF 20% 6.3V
C379	1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V	C714	1-128-057-11 s ELECT 330uF 20% 6.3V
C380	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C715	1-128-057-11 s ELECT 330uF 20% 6.3V
C381	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C717	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
C382	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C718	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
C383	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C719	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
C385	116/L_23211 c CEDAMIC O OTHE 10% 100V	C720	1-164-232-11 s CERAMIC 0.01uF 10% 100V
C386		C721	1-124-916-11 s ELECT 22uF 20% 63V
C387		C722	1-164-232-11 s CERAMIC 0.01uF 10% 100V
C388		C723	1-124-916-11 s ELECT 22uF 20% 63V
C389		C724	1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V
C390	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C725	1-135-227-11 s TANTAL 100uF 20% 6.3V
C391	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C728	1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V
C392	1-126-947-11 s ELECT 47uF 20% 35V	C729	1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V
C395	1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V	C801	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C396	1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V	C802	1-163-141-00 s CERAMIC, CHIP 0.001uF 5% 50V
C397	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C900	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-123-382-00 s ELECT 3.3uF 20% 100V 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V 1-164-695-11 s CERAMIC, CHIP 0.0022uF 5% 50V 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V
C398	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C901	
C399	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V	C902	
C400	1-124-903-11 s ELECT 1uF 20% 50V	C903	
C401	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C904	
C402	1-126-947-11 s ELECT 47uF 20% 35V	C905	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C403	1-164-232-11 s CERAMIC 0.01uF 10% 100V	C906	1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V
C404	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V	C907	1-164-232-11 s CERAMIC 0.01uF 10% 100V
C405	1-163-019-00 s CERAMIC, CHIP 0.0068uF 10% 50V	C912	1-126-933-11 s ELECT 100uF 20% 16V
C407	1-135-176-21 s TANTALUM, CHIP 0.68uF 20% 35V	C916	1-126-157-11 s ELECT 10uF 20% 16V
C408 C409 C410 C412 C413	1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-126-947-11 s ELECT 47uF 20% 35V 1-126-947-11 s ELECT 47uF 20% 35V	C917 CN11 CN607 CN608	1-107-206-00 s MICA 15PF 5% 500V 1-566-096-11 s CONNECTOR, BB 12P, MALE 1-573-782-21 o CONNECTOR, PHEC 60P, MALE 1-573-782-21 o CONNECTOR, PHEC 60P, MALE
C414 C415	1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V	СТЗ	1-141-345-11 s CAP, TRIMMER 40PF
C416	1-126-947-11 s ELECT 47uF 20% 35V	D1	8-719-941-86 s DIODE DAN202U
C417	1-164-232-11 s CERAMIC 0.01uF 10% 100V	D2	8-719-941-86 s DIODE DAN202U

(DM-92 BOARD)	(DM-92 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
D5 8-719-941-86 s DIODE DAN202U D6 8-719-800-76 s DIODE 1SS226 D7 8-719-800-76 s DIODE 1SS226 D8 8-719-941-86 s DIODE DAN202U D12 8-719-941-86 s DIODE DAN202U	L4 1-410-167-41 s INDUCTOR CHIP 820uH L5 1-410-657-21 s INDUCTOR, CHIP 180uH L6 1-410-387-11 s INDUCTOR, CHIP 33uH L7 1-410-374-11 s INDUCTOR, CHIP 2.7uH L8 1-410-381-11 s INDUCTOR CHIP 10uH
D13 8-719-941-86 s DIODE DAN202U D14 8-719-941-86 s DIODE DAN202U D15 8-719-941-86 s DIODE DAN202U D611 8-719-941-86 s DIODE DAN202U D612 8-719-941-86 s DIODE DAN202U	L9 1-410-378-11 s INDUCTOR, CHIP 5.6uH L10 1-410-379-31 s INDUCTOR CHIP 6.8uH L12 1-408-785-21 s INDUCTOR CHIP 47uH L25 1-410-381-11 s INDUCTOR CHIP 10uH L26 1-410-383-31 s INDUCTOR, CHIP 15uH
D701 8-719-941-86 s DIODE DAN202U D702 8-719-941-09 s DIODE DAP202U D704 8-719-941-86 s DIODE DAN202U D705 8-719-941-86 s DIODE DAN202U D706 8-719-941-86 s DIODE DAN202U	L27
D707 8-719-941-86 s DIODE DAN202U D800 8-719-941-86 s DIODE DAN202U D801 8-719-941-86 s DIODE DAN202U D802 8-719-104-10 s DIODE 1SS99 D803 8-719-104-10 s DIODE 1SS99	L42 1-410-385-41 s INDUCTOR CHIP 22uH L43 1-410-385-41 s INDUCTOR CHIP 22uH L44 1-408-785-21 s INDUCTOR CHIP 47uH L45 1-408-785-21 s INDUCTOR CHIP 47uH L46 1-410-381-11 s INDUCTOR CHIP 10uH
D804 8-719-941-86 s DIODE DAN202U D805 8-719-941-86 s DIODE DAN202U DL1 1-415-403-21 s DELAY LINE 1us	L47 1-410-384-31 s INDUCTOR CHIP 18uH L48 1-408-785-21 s INDUCTOR CHIP 47uH L49 1-408-785-21 s INDUCTOR CHIP 47uH L56 1-408-785-21 s INDUCTOR CHIP 47uH
FL2 1-236-848-21 s FILTER, LOW PASS 5.0MHz FL3 1-239-010-11 s FILTER, LOW PASS (CCD.PAL.Y) FL5 1-236-774-11 s FILTER, LOW-PASS (Y) FL6 1-236-850-21 s FILTER, BAND PASS 4.43MHz FL7 1-236-849-21 s FILTER, BAND PASS 4.43MHz	L57 1-408-785-21 s INDUCTOR CHIP 47uH L61 1-408-785-21 s INDUCTOR CHIP 47uH L62 1-408-777-00 s INDUCTOR, CHIP 10uH L63 1-408-777-00 s INDUCTOR, CHIP 10uH L64 1-408-777-00 s INDUCTOR, CHIP 10uH L65 1-408-777-00 s INDUCTOR, CHIP 10uH
FL8 1-577-162-11 s FILTER, CERAMIC 5.17MHz FL9 1-236-186-11 s FILTER, BAND PASS 4.43MHz  IC3 8-759-998-32 s IC CXD2107M IC5 8-759-925-60 s IC BA401 IC6 8-759-710-86 s IC NJM2233BM	L66 1-408-785-21 s INDUCTOR CHIP 47uH L67 1-408-785-21 s INDUCTOR CHIP 47uH L68 1-410-379-31 s INDUCTOR CHIP 6.8uH L69 1-408-785-21 s INDUCTOR CHIP 47uH
IC10 8-759-710-86 s IC NJM2233BM  IC12 8-752-015-81 s IC CX20158	L70 1-408-785-21 s INDUCTOR CHIP 47uH L80 1-408-785-21 s INDUCTOR CHIP 47uH L81 1-408-785-21 s INDUCTOR CHIP 47uH L82 1-408-785-21 s INDUCTOR CHIP 47uH
IC15 8-752-333-24 s IC CXL1506M IC16 8-752-333-24 s IC CXL1506M IC17 8-752-054-62 s IC CXA1207AR IC19 8-759-239-34 s IC TC74HC4538AF	L83 1-408-785-21 s INDUCTOR CHIP 47uH L84 1-408-785-21 s INDUCTOR CHIP 47uH L85 1-412-282-41 s INDUCTOR, CHIP 470uH L86 1-410-384-31 s INDUCTOR CHIP 18uH
IC20 8-759-605-61 s IC CXA1203N IC21 8-759-710-86 s IC NJM2233BM IC22 8-759-969-13 s IC SN16913P IC24 8-759-710-86 s IC NJM2233BM IC25 8-752-051-40 s IC CXA1208R	L89 1-408-789-21 S INDUCTOR CHIP 100uH L90 1-410-388-21 S INDUCTOR, CHIP 39uH L91 1-410-385-41 S INDUCTOR CHIP 22uH L92 1-410-386-11 S INDUCTOR, CHIP 27uH
IC26 8-759-925-74 s IC TC74HC04NS IC27 8-759-708-05 s IC NJM78L05A IC28 8-759-700-65 s IC NJM79L05A IC31 8-759-925-74 s IC TC74HC04NS	L93 1-408-789-21 s INDUCTOR CHIP 100uH L94 1-408-785-21 s INDUCTOR CHIP 47uH L95 1-408-785-21 s INDUCTOR CHIP 47uH L98 1-408-785-21 s INDUCTOR CHIP 47uH
IC611 8-759-009-51 s IC MC14538BF  IC612 8-759-009-51 s IC MC14538BF  IC701 8-759-710-86 s IC NJM2233BM  IC702 8-759-925-90 s IC SN74HC74NS  IC800 8-759-206-28 s IC TC74HC123F	L99 1-408-785-21 s INDUCTOR CHIP 47uH L611 1-410-387-11 s INDUCTOR, CHIP 33uH L702 1-408-785-21 s INDUCTOR CHIP 47uH L703 1-408-785-21 s INDUCTOR CHIP 47uH L704 1-408-785-21 s INDUCTOR CHIP 47uH
L1 1-408-785-21 s INDUCTOR CHIP 47uH L2 1-410-387-11 s INDUCTOR, CHIP 33uH L3 1-412-280-31 s INDUCTOR CHIP 330uH	L705 1-408-785-21 s INDUCTOR CHIP 47uH L706 1-408-785-21 s INDUCTOR CHIP 47uH L707 1-408-785-21 s INDUCTOR CHIP 47uH L708 1-408-785-21 s INDUCTOR CHIP 47uH

Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Descriptio	n
L709 L710 L711	1-410-655-31 s INDUCTOR, CHIP 120uH 1-408-789-21 s INDUCTOR CHIP 100uH 1-408-413-00 s INDUCTOR 22uH	0105 8-729-905-24 s TRANSISTOR 0106 8-729-120-28 s TRANSISTOR 0107 8-729-905-18 s TRANSISTOR 0108 8-729-202-38 s TRANSISTOR	2SC1623-L5L6 DTC144EU
Q1 Q2 Q3 Q4 Q5	8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-102-07 s TRANSISTOR 2SC2223-F13	0109 8-729-202-38 s TRANSISTOR 0110 8-729-120-28 s TRANSISTOR 0111 8-729-905-18 s TRANSISTOR 0112 8-729-102-07 s TRANSISTOR	2SC1623-L5L6 DTC144EU
Q6 Q7	8-729-905-18 s TRANSISTOR DTC144EU 8-729-102-07 s TRANSISTOR 2SC2223-F13	0113 8-729-102-07 s TRANSISTOR 0122 8-729-102-07 s TRANSISTOR	2SC2223-F13
08 09 010	8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-12 s TRANSISTOR DTA144EU 8-729-102-07 s TRANSISTOR 2SC2223-F13	0131 8-729-120-28 s TRANSISTOR 0132 8-729-120-28 s TRANSISTOR 0133 8-729-120-28 s TRANSISTOR 0134 8-729-905-18 s TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6
Q11 Q12 Q13	8-729-905-18 s TRANSISTOR DTC144EU 8-729-201-05 s TRANSISTOR 2SC2878-B 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q135 8-729-905-18 s TRANSISTOR	DTC144EU
Q14 Q15	8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-18 s TRANSISTOR DTC144EU	6172 0-172-150-50 2 IVUISTOLOV	2SC1623-L5L6 2SC1623-L5L6
Q16 Q17 Q18 Q19	8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-18 s TRANSISTOR DTC144EU	0140 8-729-120-28 s TRANSISTOR 0145 8-729-120-28 s TRANSISTOR 0146 8-729-120-28 s TRANSISTOR	2SC1623-L5L6
Q20 Q21	8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-18 s TRANSISTOR DTC144EU	0148 8-729-230-49 s TRANSISTOR 0149 8-729-120-28 s TRANSISTOR 0150 8-729-120-28 s TRANSISTOR	2SC2712-YG 2SC1623-L5L6
Q22 Q23 Q24 Q25	8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-18 s TRANSISTOR DTC144EU	0151 8-729-230-49 s TRANSISTOR 0152 8-729-120-28 s TRANSISTOR 0154 8-729-120-28 s TRANSISTOR	2SC1623-L5L6
Q46 Q48	8-729-202-38 s TRANSISTOR 2SC3326N 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	0162 8-729-102-07 s TRANSISTOR 0163 8-729-102-07 s TRANSISTOR	2SC2223-F13 2SC2223-F13
Q49 Q50 Q51	8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-905-12 s TRANSISTOR DTA144EU 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q164 8-729-102-07 s TRANSISTOR Q165 8-729-102-07 s TRANSISTOR Q166 8-729-120-28 s TRANSISTOR Q167 8-729-905-18 s TRANSISTOR	2SC2223-F13 2SC1623-L5L6
Q52 Q53 Q54	8-729-905-18 s TRANSISTOR DTC144EU 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-903-10 s TRANSISTOR FMW1	0175 8-729-905-12 s TRANSISTOR	DTC144EU
Q55 Q56 Q57	8-729-903-97 s TRANSISTOR FMS1FE 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q611 8-729-905-18 s TRANSISTOR Q612 8-729-120-28 s TRANSISTOR Q701 8-729-120-28 s TRANSISTOR Q703 8-729-905-12 s TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6
058 070 071 072	8-729-903-10 s TRANSISTOR FMW1 8-729-202-38 s TRANSISTOR 2SC3326N 8-729-230-49 s TRANSISTOR 2SC2712-YG 8-729-102-07 s TRANSISTOR 2SC2223-F13	Q704 8-729-202-38 s TRANSISTOR Q706 8-729-905-12 s TRANSISTOR Q707 8-729-905-18 s TRANSISTOR	DTA144EU
Q73 Q74	8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-102-07 s TRANSISTOR 2SC2223-F13	Q800 8-729-905-18 s TRANSISTOR Q801 8-729-202-38 s TRANSISTOR	DTC144EU 2SC3326N
Q75 Q76 Q77	8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-230-49 s TRANSISTOR 2SC2712-YG	Q802 8-729-202-38 s TRANSISTOR Q803 8-729-202-38 s TRANSISTOR Q804 8-729-905-18 s TRANSISTOR Q805 8-729-905-12 s TRANSISTOR	2SC3326N DTC144EU
078 080 081	8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-102-07 s TRANSISTOR 2SC2223-F13	Q806 8-729-120-28 s TRANSISTOR Q807 8-729-120-28 s TRANSISTOR	2SC1623-L5L6 2SC1623-L5L6
Q82 Q83 Q84	8-729-905-24 s TRANSISTOR 2SA1576-S 8-729-905-24 s TRANSISTOR 2SA1576-S 8-729-230-49 s TRANSISTOR 2SC2712-YG	Q809 8-729-905-12 s TRANSISTOR Q810 8-729-120-28 s TRANSISTOR Q811 8-729-905-18 s TRANSISTOR Q812 8-729-905-18 s TRANSISTOR	2SC1623-L5L6 DTC144EU
0101 0102 0103 0104	8-729-905-24 s TRANSISTOR 2SA1576-S 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-905-18 s TRANSISTOR DTC144EU	Q813 8-729-905-18 s TRANSISTOR Q815 8-729-905-18 s TRANSISTOR Q816 8-729-905-18 s TRANSISTOR Q817 8-729-202-38 s TRANSISTOR	DTC144EU DTC144EU DTC144EU

(DM-92 BOARD)

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(DM-92 BOARD)
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Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
Q818 Q819 Q820 Q821	8-729-905-18 s TRANSISTOR DTC144EU 8-729-901-01 s TRANSISTOR DTC144EK 8-729-901-01 s TRANSISTOR DTC144EK 8-729-202-38 s TRANSISTOR 2SC3326N	R119 R120 R121 R122 R123	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-037-00 s METAL, CHIP 330 5% 1/10W 1-216-035-00 s METAL, CHIP 270 5% 1/10W
R1	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R125	1-216-631-11 s METAL. CHIP 150 0.5% 1/10W
R2	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R128	1-216-077-00 s METAL. CHIP 15K 5% 1/10W
R3	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R130	1-216-653-11 s METAL. CHIP 1.2K 0.5% 1/10W
R5	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W	R131	1-216-041-00 s METAL. CHIP 470 5% 1/10W
R6	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R132	1-216-069-00 s METAL. CHIP 6.8K 5% 1/10W
R7	1-216-089-91 s METAL, CHIP 47K 5% 1/10W	R133	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
R8	1-216-631-11 s METAL, CHIP 150 0.5% 1/10W	R134	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R9	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R135	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R10	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R136	1-216-621-11 s METAL, CHIP 56 0.5% 1/10W
R11	1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W	R137	1-216-639-11 s METAL, CHIP 330 0.5% 1/10W
R12	1-216-641-11 s METAL, CHIP 390 0.5% 1/10W	R138	1-216-649-11 s METAL, CHIP 820 0.5% 1/10W
R13	1-216-633-11 s METAL, CHIP 180 0.5% 1/10W	R139	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R14	1-216-295-00 s METAL, CHIP 0	R140	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R15	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R141	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R16	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R142	1-216-025-00 s METAL, CHIP 100 5% 1/10W
R17	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R143	1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
R18		R144	1-216-083-00 s METAL, CHIP 27K 5% 1/10W
R19		R198	1-216-089-91 s METAL, CHIP 47K 5% 1/10W
R20		R199	1-216-643-11 s METAL, CHIP 47O 0.5% 1/10W
R21		R200	1-216-089-91 s METAL, CHIP 47K 5% 1/10W
R22	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R201	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R23	1-216-652-11 s METAL, CHIP 1.1K 0.5% 1/10W	R202	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R24	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W	R205	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R25	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W	R206	1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
R26	1-216-630-11 s METAL, CHIP 130 0.5% 1/10W	R207	1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
R27	1-216-637-11 s METAL, CHIP 270 0.5% 1/10W	R208	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R28	1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W	R209	1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W
R29	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R210	1-216-610-11 s METAL, CHIP 20 0.50% 1/10W
R30	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R211	1-216-041-00 s METAL, CHIP 470 5% 1/10W
R31	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R212	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R44	1-210-295-00 S METAL, CHIP 0	R213	1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
R45		R214	1-216-041-00 s METAL, CHIP 470 5% 1/10W
R46		R215	1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
R48		R217	1-216-616-11 s METAL, CHIP 36 0.50% 1/10W
R49		R218	1-216-617-11 s METAL, CHIP 39 0.50% 1/10W
R50	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R219	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R51	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R220	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R52	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R221	1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
R53	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R222	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R54	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R223	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R55	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R224	1-216-037-00 s METAL, CHIP 330 5% 1/10W
R105	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R225	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
R106	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R227	1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
R107	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R229	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
R108	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R230	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
R109	1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W	R231	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R110	1-216-637-11 s METAL, CHIP 270 0.5% 1/10W	R232	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R111	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R233	1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W
R112	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R234	1-216-672-91 s METAL, CHIP 7.5K 0.50% 1/10W
R113	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W	R235	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R114 R115 R116 R117 R118	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-648-11 s METAL, CHIP 750 0.5% 1/10W	R236 R237 R238 R240	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W

Ref. No. or Q'ty	Part No.	SP Descript	ion	Ref. No. or Q'ty	Part No. SP Description
R241 R262 R263 R264 R265	1-216-073-0 1-216-081-0 1-216-081-0	O s METAL, ( O s METAL, ( O s METAL, (	HIP 100 5% 1/10W HIP 10K 5% 1/10W HIP 22K 5% 1/10W HIP 22K 5% 1/10W HIP 10K 5% 1/10W	R353 R354 R355 R356 R357	1-216-641-11 s METAL, CHIP 390 0.5% 1/10W 1-216-079-00 s METAL, CHIP 18K 5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W
R266 R268 R299 R300 R301	1-216-013-0 1-216-121-0 1-216-049-0	O s METAL, ( O s METAL, ( O s METAL, (	HIP 100 5% 1/10W HIP 33 5% 1/10W HIP 1M 5% 1/10W HIP 1K 5% 1/10W HIP 82K 5% 1/10W	R358 R359 R360 R361 R362	1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-025-00 s METAL, CHIP 10O 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-638-11 s METAL, CHIP 30O 0.5% 1/10W
R303 R304 R305 R306 R307	1-216-091-0 1-216-649-1 1-216-651-1	O s METAL, ( 1 s METAL, ( 1 s METAL, (	HIP 33K 5% 1/10W HIP 56K 5% 1/10W HIP 820 0.5% 1/10W HIP 1K 0.5% 1/10W HIP 1K 0.5% 1/10W	R364 R365 R366 R393 R394	1-216-638-11 s METAL, CHIP 300 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
R308 R309 R310 R311 R312	1-216-659-1 1-216-651-1 1-216-651-1	1 s METAL, ( 1 s METAL, ( 1 s METAL, (	HIP 2.2K 0.5% 1/10W HIP 2.2K 0.5% 1/10W HIP 1K 0.5% 1/10W HIP 1K 0.5% 1/10W HIP 2.2K 5% 1/10W	R395 R396 R397 R398 R423	1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R313 R314 R315 R316 R317	1-216-121-0 1-216-049-0	O s METAL, ( O s METAL, ( O s METAL, (	HIP 470K 5% 1/10W HIP 1M 5% 1/10W HIP 1K 5% 1/10W HIP 82K 5% 1/10W HIP 0	R424 R425 R426 R427 R429	1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
R318 R319 R320 R321 R322	1-216-091-0 1-216-643-1 1-216-651-1	O s METAL, ( 1 s METAL, ( 1 s METAL, (	HIP 33K 5% 1/10W HIP 56K 5% 1/10W HIP 470 0.5% 1/10W HIP 1K 0.5% 1/10W HIP 2.7K 0.5% 1/10W	R430 R431 R432 R433 R434	1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-097-00 s METAL, CHIP 10OK 5% 1/10W
R323 R324 R325 R327 R328	1-216-659-1 1-216-057-9	1 s METAL, ( 1 s METAL, ( 1 s METAL, (	HIP 2.2K 0.5% 1/10W HIP 2.2K 0.5% 1/10W HIP 2.2K 5% 1/10W HIP 100K 0.5% 1/10W HIP 0	R435 R436 R437 R438 R439	1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
R329 R330 R331 R332 R333	1-216-113-0 1-216-649-1 1-216-645-1	O s METAL, ( 1 s METAL, ( 1 s METAL, (	HIP 330 5% 1/10W HIP 470K 5% 1/10W HIP 820 0.5% 1/10W HIP 560 0.5% 1/10W HIP 33K 5% 1/10W	R440 R441 R442 R443 R444	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R334 R335 R336 R337 R338	1-216-081-0 1-216-075-0 1-216-081-0	O s METAL, ( O s METAL, ( O s METAL, (	HIP 240 0.5% 1/10W HIP 22K 5% 1/10W HIP 12K 5% 1/10W HIP 22K 5% 1/10W HIP 47K 5% 1/10W	R445 R446 R447 R448 R449	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W
R339 R340 R341 R342 R343	1-216-097-0 1-216-691-1 1-216-653-1	O s METAL, ( 1 s METAL, ( 1 s METAL, (	HIP 10K 5% 1/10W HIP 100K 5% 1/10W HIP 47K 0.5% 1/10W HIP 1.2K 0.5% 1/10W HIP 3.6K 0.5% 1/10W	R450 R451 R452 R453 R454	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R344 R345 R346 R347 R348	1-216-089-9 1-216-089-9 1-216-641-1	1 s METAL, ( 1 s METAL, ( 1 s METAL, (	HIP 820K 5% 1/10W HIP 47K 5% 1/10W HIP 47K 5% 1/10W HIP 390 0.5% 1/10W HIP 470 0.5% 1/10W	R456 R457 R458 R459 R460	1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-628-11 s METAL, CHIP 110 0.5% 1/10W
R349 R350 R351 R352	1-216-089-9 1-216-089-9	1 s METAL, (	HIP 47K 5% 1/10W HIP 47K 5% 1/10W HIP 47K 5% 1/10W HIP 47K 5% 1/10W	R461 R462 R463 R482	1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

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(DM-92 BOARD)
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Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
R483 1-216-025-00 s METAL, CHIP 100 5% 1/10W R485 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W R486 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R487 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R488 1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R611 1-216-106-00 s METAL, CHIP 240K 5% 1/10W R612 1-216-106-00 s METAL, CHIP 240K 5% 1/10W R613 1-216-089-91 s METAL, CHIP 47K 5% 1/10W R615 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R616 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R489 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W R490 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W R493 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W R495 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R496 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W	R617 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W R618 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R719 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W R720 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R721 1-216-081-00 s METAL, CHIP 2ZK 5% 1/10W
R497 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R498 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W R499 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R500 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R501 1-216-025-00 s METAL, CHIP 10O 5% 1/10W	R723 1-216-025-00 s METAL, CHIP 100 5% 1/10W R724 1-216-025-00 s METAL, CHIP 100 5% 1/10W R728 1-216-295-00 s METAL, CHIP 0 R730 1-216-295-00 s METAL, CHIP 0 R732 1-216-295-00 s METAL, CHIP 0
R502 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R503 1-216-295-00 s METAL, CHIP 0 R504 1-216-295-00 s METAL, CHIP 0 R505 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W R506 1-216-017-00 s METAL, CHIP 47 5% 1/10W	R733 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R734 1-216-089-91 s METAL, CHIP 47K 5% 1/10W R735 1-216-295-00 s METAL, CHIP 0 R736 1-216-295-00 s METAL, CHIP 0 R737 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
R507 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W R508 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R509 1-216-017-00 s METAL, CHIP 47 5% 1/10W R510 1-216-025-00 s METAL, CHIP 100 5% 1/10W R511 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W	R738 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R739 1-216-041-00 s METAL, CHIP 470 5% 1/10W R741 1-216-295-00 s METAL, CHIP 0 R742 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W R744 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R512 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W R513 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R514 1-216-025-00 s METAL, CHIP 100 5% 1/10W R515 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W R516 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W	R745 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R746 1-216-037-00 s METAL, CHIP 330 5% 1/10W R747 1-216-809-11 s METAL, CHIP 100 5% 1/16W R749 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R756 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R517 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W R518 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W R519 1-216-017-00 s METAL, CHIP 47 5% 1/10W R522 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R523 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W	R757 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R758 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R759 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R780 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R785 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R524 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R526 1-216-025-00 s METAL, CHIP 100 5% 1/10W R527 1-216-025-00 s METAL, CHIP 100 5% 1/10W R549 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R550 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W	R786 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R787 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W R791 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R792 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R793 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
R551 1-216-033-00 s METAL, CHIP 220 5% 1/10W R552 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W R553 1-216-025-00 s METAL, CHIP 100 5% 1/10W R554 1-216-025-00 s METAL, CHIP 100 5% 1/10W R555 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W	R794 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R795 1-216-081-00 s METAL, CHIP 2ZK 5% 1/10W R800 1-216-295-00 s METAL, CHIP 0 R801 1-216-025-00 s METAL, CHIP 100 5% 1/10W R803 1-216-080-00 s METAL, CHIP 20K 5% 1/10W
R556 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R557 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R558 1-216-025-00 s METAL, CHIP 100 5% 1/10W R559 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R560 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R804 1-216-295-00 s METAL, CHIP 0 R902 1-216-675-91 s METAL, CHIP 10K 0.50% 1/10W R903 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W R904 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W R905 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
R561 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R562 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R573 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R576 1-216-295-00 s METAL, CHIP 0 R585 1-216-295-00 s METAL, CHIP 0	R950 1-216-641-11 s METAL, CHIP 390 0.5% 1/10W R951 1-216-089-91 s METAL, CHIP 47K 5% 1/10W R952 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W R954 1-216-295-00 s METAL, CHIP 0 R955 1-216-681-11 s METAL, CHIP 18K 0.5% 1/10W
R586 1-216-295-00 s METAL, CHIP 0 R587 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R588 1-216-089-91 s METAL, CHIP 47K 5% 1/10W R591 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W	R956 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W R957 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R958 1-216-649-11 s METAL, CHIP 820 0.5% 1/10W R959 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W

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(DM-92 BOARD)
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Ref. No.
or Q'ty Part No.
                                              SP Description
                   1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
R963
R964
R965
R966
                   1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W
R967
R968
R970
R971
R972
                   1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
R973
R975
R976
R977
R978
                   1-249-429-11 s CARBON 10K 5% 1/4W
1-249-437-11 s CARBON 47K 5% 1/4W
1-249-429-11 s CARBON 10K 5% 1/4W
1-249-429-11 s CARBON 10K 5% 1/4W
R983
R984
R985
R986
R987
                    1-249-437-11 s CARBON 47K 5% 1/4W
                   1-238-800-11 s RES, ADJ METAL 2K
1-238-800-11 s RES, ADJ METAL 2K
RV8
RV9
                   1-238-784-11 s RES, ADJ METAL 1K
1-238-787-11 s RES, ADJ METAL 10K
1-238-789-11 s RES, ADJ, CERMET 50K
RV10
RV11
RV12
RV13
                    1-238-803-11 s RES, ADJ METAL 20K
                   1-238-799-11 s RES, ADJ METAL 1K
1-238-802-11 s RES, ADJ METAL 10K
1-238-787-11 s RES, ADJ METAL 10K
RV16
RV17
RV22
                    1-241-261-41 s RES, ADJ, CERMET 1K
RV26
                   1-241-261-41 s RES, ADJ, CERMET 1K
1-238-784-11 s RES, ADJ METAL 1K
1-238-799-11 s RES, ADJ METAL 1K
RV27
RV28
RV702
                    1-228-459-00 s RES, ADJ METAL 10K
RV703
TH101
                    1-808-269-11 s THERMISTER
TH102
                    1-800-202-11 s THERMISTOR S-10K
```

1-577-117-21 s CRYSTAL 4.433619MHz

### DP-101 BOARD (Included DD-12 Board) Ref. No. or Q'ty Part No. SP Description 8-719-942-19 s LED LB402VK D101 8-719-942-19 s LED LB402VK 8-719-942-19 s LED LB402VK D102 D103

8-719-942-19 s LED LB402VK

X501

D104

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DUS-613 BOARD
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)US-613
0% 25V 0% 25V 0% 25V 20V
)M )M ! !

#### DUS-635 BOARD

R306

Ref. No. or Q'ty	Part No. SP Description	
1pc	1-647-742-11 o PRINTED CIRCUIT BOARD, DUS-6	35
C101	1-161-021-11 s CERAMIC 0.047uF 10% 25V	
ICN101	1-526-816-21 s SOCKET, IC (DP) 24P	

1-247-867-11 s CARBON 33K 5% 1/4W

### D

DUS-646 [	BOARD
Ref. No. or Q'ty	Part No. SP Description
1pc	1-648-231-11 o PRINTED CIRCUIT BOARD, DUS-646
C913 C914	1-164-695-11 s CERAMIC, CHIP 0.0022uF 5% 50V 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
IC801	8-759-009-51 s IC MC14538BF
R979 R980	1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W

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DUS-662 BOARD
                                                                                                                 FL-129P BOARD
                                                                                                                 Ref. No.
Ref. No.
                                                                                                                 or Q'ty Part No.
                                                                                                                                                     SP Description
or Q'ty Part No.
                                    SP Description
                                                                                                                                 A-8276-540-A o MOUNTED CIRCUIT BOARD, FL-129P
               A-8276-658-A o MOUNTED CIRCUIT BOARD, DUS-662
                                                                                                                 1pc
1pc
               1-126-157-11 s ELECT 10uF 20% 16V
1-161-051-00 s CERAMIC 0.01uF 10% 50V
1-161-051-00 s CERAMIC 0.01uF 10% 50V
1-161-051-00 s CERAMIC 0.01uF 10% 50V
                                                                                                                                 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
C351
                                                                                                                                 1-135-100-21 S TANTALUM, CHIP 474F 10% 10V

1-135-166-21 S TANTALUM, CHIP 474F 10% 10V

1-163-038-91 S CERAMIC, CHIP 0.14F 25V

1-162-970-11 S CERAMIC, CHIP 0.014F 10% 25V

1-162-970-11 S CERAMIC, CHIP 0.014F 10% 25V
                                                                                                                 C38
C352
                                                                                                                 C39
C353
                                                                                                                 C40
C354
                1-130-477-00 s MYLAR 0.0033uF 5% 50V
                                                                                                                 C41
C355
                                                                                                                                 1-163-145-00 s CERAMIC, CHIP 0.0015uF 5% 50V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-162-924-11 s CERAMIC 56PF 5% 50V
1-162-928-11 s CERAMIC, CHIP 120PF 5% 50V
1-164-816-11 s CERAMIC, CHIP 220PF 2% 50V
               1-130-477-00 s MYLAR 0.0033uF 5% 50V
1-161-051-00 s CERAMIC 0.01uF 10% 50V
1-161-051-00 s CERAMIC 0.01uF 10% 50V
                                                                                                                 C42
C356
                                                                                                                 C43
C357
                                                                                                                 C44
C358
                                                                                                                 C45
               1-526-816-21 s SOCKET, IC (DP) 24P
1-526-816-21 s SOCKET, IC (DP) 24P
8-759-917-11 s IC SN74HC393AN
8-759-239-59 s IC TC74HC221AP
                                                                                                                 C46
IC351
IC352
                                                                                                                                 1-162-959-11 s CERAMIC, CHIP 330PF 5% 50V
1-164-383-11 s CERAMIC, CHIP 110PF 5% 50V
1-164-392-11 s CERAMIC, CHIP 390PF 5% 50V
1-164-238-11 s CERAMIC, CHIP 36PF 10% 50V
1-164-466-11 s CERAMIC, CHIP 240PF 5% 50V
                                                                                                                 C47
IC353
                                                                                                                 C48
IC354
                                                                                                                 C49
                1-249-437-11 s CARBON 47K 5% 1/4W
                                                                                                                 C50
R351
                                                                                                                 C51
               1-228-462-00 s RES, ADJ METAL 100K
1-228-462-00 s RES, ADJ METAL 100K
RV351
                                                                                                                  C52
                                                                                                                                 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
RV352
                                                                                                                                 1-162-970-11 S CERAMIC, CHIP 9.0111 10% 25V

1-164-393-11 S CERAMIC, CHIP 430PF 5% 50V

1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V

1-163-038-91 S CERAMIC, CHIP 0.1uF 25V
                                                                                                                  C54
                                                                                                                  C56
                                                                                                                  C59
                                                                                                                  C60
                                                                                                                                 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V
1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                 062
DUS-693 BOARD
                                                                                                                 C63
                                                                                                                  C64
                                                                                                                  C65
Ref. No.
                                                                                                                                 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                  C66
or Q'ty Part No.
                                    SP Description
                                                                                                                                 1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V
1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
                1-649-685-11 o PRINTED CIRCUIT BOARD, DUS-693
                                                                                                                  C67
                                                                                                                  C68
                                                                                                                  C69
                1-164-232-11 s CERAMIC 0.01uF 10% 100V
 C918
               1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                 C70
 C919
 C920
                                                                                                                  C72
 C921
                                                                                                                                 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                1-164-232-11 s CERAMIC 0.01uF 10% 100V
 0922
                                                                                                                  C457
                8-752-053-21 s IC CXI1211M
 IC802
                                                                                                                                 8-759-710-86 s IC NJM2233BM
                                                                                                                  IC4
                1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R988
                                                                                                                                 1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                                  113
 R989
                                                                                                                                 1-408-785-21 S INDUCTOR CHIP 47uH
1-408-798-00 S INDUCTOR, CHIP 1mmH
1-410-389-31 S INDUCTOR CHIP 47uH
                                                                                                                  L14
                                                                                                                  115
                                                                                                                  L16
                                                                                                                                  1-410-391-11 s INDUCTOR, CHIP 68uH
                                                                                                                  L17
                                                                                                                  L18
                                                                                                                                 1-410-392-11 s INDUCTOR, CHIP 82uH
                                                                                                                                 1-410-392-11 s INDUCTOR, CHIP 82uH
1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                                  L19
 DUS-699 BOARD
                                                                                                                  L23
 Ref. No.
                                                                                                                  026
                                                                                                                                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 or Q'ty Part No.
                                     SP Description
                                                                                                                                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                  Q27
                                                                                                                                 8-729-905-18 s TRANSISTOR DTC144EU
8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                1-649-860-11 o PRINTED CIRCUIT BOARD, DUS-699
                                                                                                                  028
 1pc
                                                                                                                  029
                                                                                                                                  8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                8-759-700-43 s IC NJM4558M
 IC704
                1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W
                                                                                                                  031
                                                                                                                                  8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 R857
                                                                                                                                 8-729-905-24 s TRANSISTOR 2SA1576-S
8-729-202-38 s TRANSISTOR 2SC3326N
                                                                                                                  033
 R858
                                                                                                                  034
 R859
                                                                                                                                 8-729-202-38 s TRANSISTOR 2SC3326N
                                                                                                                  Q35
 R860
                                                                                                                                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                  Q36
                                                                                                                  Q37
                                                                                                                                  8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                  038
                                                                                                                                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                                  8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                  039
                                                                                                                                  8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                  040
                                                                                                                                  8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                  041
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#### (FL-130P BOARD)

Ref. No. or Q'ty	Part No. SP	Description	
	1-216-817-11 s 1-218-482-11 s 1-216-864-11 s	METAL, CHIP 470 5% 1/16W METAL, CHIP 470 5% 1/16W METAL, CHIP 430 5% 1/16W METAL, CHIP 0 5% 1/16W METAL, CHIP 1K 5% 1/16W	
R389 R391 R392 R590 R710	1-216-825-11 s 1-216-809-11 s 1-218-727-11 s	METAL, CHIP 2.2K 5% 1/16W METAL, CHIP 2.2K 5% 1/16W METAL, CHIP 100 5% 1/16W METAL, CHIP 30K 0.50% 1/1 METAL, CHIP 27K 5% 1/16W	ď
R712 R713	1-216-825-11 s 1-216-817-11 s 1-218-883-11 s	METAL, CHIP 100 5% 1/16W METAL, CHIP 2.2K 5% 1/16W METAL, CHIP 470 5% 1/16W METAL, CHIP 33K 0.50 1/16W METAL, CHIP 470 5% 1/16W	
R716 R718 R747	1-216-825-11 s	METAL, CHIP 680 0.50% 1/1 METAL, CHIP 2.2K 5% 1/16W METAL, CHIP 100 5% 1/16W	1

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FL-131P BOARD
Ref. No.
or Q'ty Part No.
                                      SP Description
                A-8276-542-A o MOUNTED CIRCUIT BOARD, FL-131P
1pc
               1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C313
C314
C316
C321
                1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C322
C323
                1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
C324
C456
                1-135-227-11 s TANTAL 100uF 20% 6.3V
1-135-227-11 s TANTAL 100uF 20% 6.3V
C724
C725
CN9
                1-566-095-11 o CONNECTOR, BB 11P, MALE
                1-566-095-11 o CONNECTOR, BB 11P, MALE
CN10
CT2
                1-141-404-11 s CAP, TRIMMER 30PF
L53
                1-410-381-11 s INDUCTOR CHIP 10uH
                1-410-386-11 s INDUCTOR, CHIP 27uH
1-410-385-41 s INDUCTOR CHIP 22uH
177
L709
Q123
                8-729-230-49 s TRANSISTOR 2SC2712-YG
Q124
                8-729-120-28 s TRANSISTOR 2SC1623-L5L6
Q125
                8-729-230-49 s TRANSISTOR 2SC2712-YG
                8-729-230-49 s TRANSISTOR 2SC2712-YG
0126
                8-729-102-07 s TRANSISTOR 2SC2223-F13
0127
0130
               8-729-905-24 s TRANSISTOR 2SA1576-S
8-729-905-24 s TRANSISTOR 2SA1576-S
0708
0709
                8-729-120-28 s TRANSISTOR 2SC1623-L5L6
               1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-218-285-11 s METAL, CHIP 75 5% 1/16W 1-216-820-11 s METAL, CHIP 820 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R399
R400
R401
R402
R403
R404
                1-216-821-11 s METAL, CHIP 1K 5% 1/16W
               1-218-700-11 s METAL, CHIP 2.2K 0.50% 1/16W
1-218-704-11 s METAL, CHIP 3.3K 0.50% 1/16W
1-216-820-11 s METAL, CHIP 820 5% 1/16W
1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R405
R406
R407
R408
               1-216-838-11 s METAL, CHIP 27K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W
R409
R410
R412
R413
R421
R422
               1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
               1-216-838-11 s METAL, CHIP 2.2K 5% 1/16W
1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
1-216-864-11 s METAL, CHIP 0 5% 1/16W
1-218-716-11 s METAL, CHIP 10K 0.50% 1/16W
R601
R750
R751
R752
               1-218-700-11 s METAL, CHIP 2.2K 0.50% 1/16W 1-218-482-11 s METAL, CHIP 430 5% 1/16W
R753
R754
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1-241-262-11 s RES, ADJ, CERMET 2K

**RV15** 

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KY-217 BOARD
FP-84 BOARD
                                                                                       Ref. No.
Ref. No.
                                                                                       or Q'ty
                                                                                                  Part No.
                                                                                                                  SP Description
                           SP Description
or Q'ty Part No.
                                                                                                   A-8271-230-A o MOUNTED CIRCUIT BOARD, KY-217
            A-7070-624-A o MOUNTED CIRCUIT BOARD, FP-84
                                                                                       1pc
1pc
                                                                                                   3-718-657-01 o HOLDER, LED
                                                                                       1pc
                                                                                                   1-528-229-11 o BATTERY, LITHIUM CR-2450
                                                                                       BT1
                                                                                                   1-163-104-00 s CERAMIC, CHIP 30PF 5% 50V
1-163-104-00 s CERAMIC, CHIP 30PF 5% 50V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-126-176-11 s ELECT 220uF 20% 10V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
                                                                                       C2
                                                                                       C3
                                                                                       C4
FP-122 BOARD
                                                                                       C6
                                                                                       C7
Ref. No.
or Q'ty Part No.
                            SP Description
                                                                                                   1-125-513-11 s DOUBLE LAYERS 0.047FARAD 5.5V
                                                                                       С8
                                                                                                   1-126-163-11 s ELECT 4.7uF 20% 50V
                                                                                       C9
            A-7070-625-A o MOUNTED CIRCUIT BOARD, FP-122
1pc
                                                                                       C10
                                                                                                   1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                   1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-163-104-00 s CERAMIC, CHIP 30PF 5% 50V
                                                                                       C11
                                                                                       C12
                                                                                                   1-163-104-00 s CERAMIC, CHIP 30PF 5% 50V 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V 1-124-472-11 s ELECT 470uF 20% 10V
                                                                                       C13
                                                                                       C14
                                                                                       C15
HP-52 BOARD
                                                                                                   1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-126-163-11 s ELECT 4.7uF 20% 50V
                                                                                       C16
                                                                                       C17
Ref. No.
or Q'ty Part No.
                           SP Description
                                                                                                   1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
                                                                                       C18
                                                                                                   1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
            1-642-875-12 o PRINTED CIRCUIT BOARD, HP-52
                                                                                       C19
1nc
            1-642-874-11 o PRINTED CIRCUIT BOARD, VR-130
1pc
                                                                                                   1-506-487-11 s CONNECTOR 8P, MALE
1-506-471-11 s CONNECTOR 6P, MALE
1-506-491-11 o CONNECTOR, 12P, MALE
1-506-489-11 o CONNECTOR 10P, MALE
                                                                                       CN701
            1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                       CN702
C1
                                                                                       CN703
                                                                                       CN704
J1002
            1-507-854-00 s JACK, PHONE
                                                                                                   1-506-486-11 s CONNECTOR 7P, MALE
                                                                                       CN706
CN242
            1-506-482-11 s CONNECTOR 3P, MALE
                                                                                                   1-566-388-11 s CONNECTOR 8P, MALE
                                                                                       COP1
R1
            1-216-033-00 s METAL, CHIP 220 5% 1/10W
            1-216-033-00 s METAL, CHIP 220 5% 1/10W
1-216-033-00 s METAL, CHIP 220 5% 1/10W
                                                                                       COR1
                                                                                                   1-563-859-11 s PLUG, SHORTING
R2
R3
            1-216-033-00 s METAL, CHIP 220 5% 1/10W
1-216-033-00 s METAL, CHIP 220 5% 1/10W
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                       D1
R4
                                                                                       D9
                                                                                                   8-719-104-34 s DIODE 1S2835
R5
                                                                                                   8-719-104-34 s DIODE 1S2835
8-719-104-34 s DIODE 1S2835
                                                                                       D10
            1-216-033-00 s METAL, CHIP 220 5% 1/10W
1-216-033-00 s METAL, CHIP 220 5% 1/10W
1-216-033-00 s METAL, CHIP 220 5% 1/10W
                                                                                       D11
R6
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                       D13
R7
RR
                                                                                       D14
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                                   8-719-104-34 s DIODE 1S2835
            1-237-703-11 s RES, VAR CARBON 2Kx2
                                                                                       D15
RV1
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                       D17
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                       D19
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                       D23
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                       D24
                                                                                       D25
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                       D26
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                       D29
                                                                                                   8-719-104-34 s DIODE 1S2835
                                                                                       D30
                                                                                                   8-719-104-34 s DIODE 1S2835
8-719-200-02 s DIODE 10E2
                                                                                       D45
                                                                                       D48
                                                                                                    8-719-800-76 s DIODE 1SS226
                                                                                       D49
                                                                                                   8-719-800-76 s DIODE 1SS226
                                                                                       D50
                                                                                                   8-719-800-76 s DIODE 1SS226
                                                                                       D51
                                                                                       D52
                                                                                                    8-719-800-76 s DIODE 1SS226
                                                                                                   8-719-800-76 s DIODE 1SS226
8-719-939-39 s LED GL5HD8, RED
                                                                                       D54
                                                                                       D101
                                                                                                    8-719-802-11 s LED TLUG154, GRN
                                                                                       D102
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8-719-939-39 s LED GL5HD8, RED

D103

D104

D105

D106

D107

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(KY-217 BOARD)
                                                                                                                                  (KY-217 BOARD)
Ref. No.
                                                                                                                                 Ref. No.
or O'ty Part No.
                                         SP Description
                                                                                                                                 or Q'ty Part No.
                                                                                                                                                                          SP Description
                 8-719-939-39 s LED GL5HD8, RED
                                                                                                                                 R16
                                                                                                                                                   1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
                                                                                                                                                  1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
D109
                                                                                                                                 R17
D110
                                                                                                                                 R18
D111
                                                                                                                                 R19
D112
                  8-719-939-39 s LED GL5HD8, RED
                                                                                                                                 R20
                                                                                                                                                  1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-023-00 s METAL, CHIP 82 5% 1/10W 1-216-023-00 s METAL, CHIP 82 5% 1/10W
                 8-719-939-39 s LED GL5HD8, RED
D113
                                                                                                                                 R21
                 8-719-820-28 s LED TLG-256, GRN
D114
                                                                                                                                 R22
                 8-719-820-28 s LED TLG-256, GRN
8-719-939-39 s LED GL5HD8, RED
                                                                                                                                 R23
D115
D116
                                                                                                                                 R24
                 8-719-802-11 s LED TLUG154, GRN
D117
                                                                                                                                 R25
                                                                                                                                                  1-216-023-00 s METAL, CHIP 82 5% 1/10W
D118
                 8-719-939-39 s LED GL5HD8, RED
                                                                                                                                 R26
                                                                                                                                 R27
                 8-759-072-57 s IC M50747H-601FP
8-759-093-15 s IC TD62104F
8-759-708-05 s IC NJM78L05A
8-759-074-77 s IC MB88201HPF-539N
8-759-074-77 s IC MB88201HPF-539N
                                                                                                                                 R28
IC4
                                                                                                                                 R29
IC6
                                                                                                                                 R30
TC7
IC7
                                                                                                                                 R31
                                                                                                                                                   1-216-023-00 s METAL, CHIP 82 5% 1/10W
                                                                                                                                                  1-210-023-00 S METAL, CHIP 82 5% 1/10W

1-216-121-00 S METAL, CHIP 1M 5% 1/10W

1-216-059-00 S METAL, CHIP 2.7K 5% 1/10W

1-216-081-00 S METAL, CHIP 22K 5% 1/10W

1-216-081-00 S METAL, CHIP 22K 5% 1/10W
                                                                                                                                 R32
L001
                 1-410-385-41 s INDUCTOR CHIP 22uH
                                                                                                                                 R33
                                                                                                                                 R34
                 8-729-901-07 s TRANSISTOR DTA124XK
                                                                                                                                 R35
                 8-729-901-07 s TRANSISTOR DTA124XK
8-729-901-07 s TRANSISTOR DTA124XK
8-729-120-28 s TRANSISTOR 2SC1623-L5L6
Q3
                                                                                                                                                  1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-059-00 s METAL, CHIP 2.7K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W
                                                                                                                                 R36
Õ5
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Q6
                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                                 R38
                                                                                                                                 230
                 8-729-901-07 s TRANSISTOR DTA124XK
8-729-901-01 s TRANSISTOR DTC144EK
07
                                                                                                                                 R40
Q15
                                                                                                                                                  1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
8-729-216-22 s TRANSISTOR 2SA1162
Q100
                                                                                                                                 R41
0101
                                                                                                                                 R44
                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
0102
                                                                                                                                 R45
                                                                                                                                 R48
                8-729-216-22 s TRANSISTOR 2SA1162
8-729-120-28 s TRANSISTOR 2SC1623-L5L6
8-729-216-22 s TRANSISTOR 2SA1162
8-729-120-28 s TRANSISTOR 2SC1623-L5L6
0103
                                                                                                                                 R49
0104
0105
                                                                                                                                 R50
                                                                                                                                                  1-216-049-00 s METAL, CHIP 1K 5% 1/10W
                                                                                                                                                  1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
0106
                                                                                                                                 R51
0107
                 8-729-216-22 s TRANSISTOR 2SA1162
                                                                                                                                 R52
                                                                                                                                                  1-216-049-00 s METAL, CHIP 1K 5% 1/10W
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
                                                                                                                                 R53
0108
                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
                                                                                                                                 R54
Q109
                 8-729-216-22 s TRANSISTOR 2SA1162
                                                                                                                                                  1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
8-729-216-22 s TRANSISTOR 2SA1162
Q110
                                                                                                                                 R55
0111
                                                                                                                                 R56
                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
0112
                                                                                                                                 R57
                                                                                                                                 R58
0113
                 8-729-216-22 s TRANSISTOR 2SA1162
                                                                                                                                 R73
Q114
                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
Q115
                 8-729-216-22 s TRANSISTOR 2SA1162
Q116
                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
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0117
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0118

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Q120

0121

Q122

Q124

R8

RQ

R10

R11

R13

R14

R15

(MD-89 B	OARD)				(MD-89 B	OARD)					
Ref. No. or Q'ty	Part No.	SP	Description		Ref. No. or Q'ty	Part No.	SP	Descript	ion		
C748 C749 C750 C751 C752	1-164-232-1 1-163-215-0 1-164-232-1	1 s 0 s 1 s	CERAMIC, CHIP 47PF 5% 50V CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 0.0027uF 5% 5 CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 82PF 5% 50V	ov	L1 L2 L3 L4 L5	1-408-785-1 1-408-785-1 1-408-785-1 1-408-785-1 1-408-785-2	21 s 21 s 21 s	INDUCTOR INDUCTOR INDUCTOR	CHIP CHIP CHIP	47uH 47uH 47uH	
C753 C754 C755 C756 C760	1-126-947-1 1-164-232-1 1-164-232-1	1 s 1 s 1 s	ELECT 47uF 20% 35V ELECT 47uF 20% 35V CERAMIC 0.01uF 10% 100V CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 27PF 5% 50V		L8 L10 L11 L12 L13	1-410-388-3 1-408-785-3 1-408-785-3 1-410-388-3 1-408-785-3	21 s 21 s 31 s	INDUCTOR INDUCTOR INDUCTOR	CHIP CHIP CHIP	47uH 47uH 39uH	
C761 C763 C764 C766 C767	1-164-232-1 1-163-227-1 1-163-038-9	1 s 1 s 1 s	CERAMIC 0.01uF 10% 100V CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 10PF 5% 50V CERAMIC, CHIP 0.1uF 25V CERAMIC, CHIP 18PF 5% 50V		L14. L15 L16 L17 L18	1-408-785-2 1-410-383-3 1-408-785-2 1-408-785-2	31 s 21 s 21 s	INDUCTOR INDUCTOR INDUCTOR	CHIP CHIP CHIP	P 15uH 47uH 47uH	
C769 C771 C772 C774 C804	1-163-033-0 1-163-033-0 1-126-947-1	0 s 0 s 1 s	CERAMIC 0.01uF 10% 100V CERAMIC, CHIP 0.022uF 50V CERAMIC, CHIP 0.022uF 50V ELECT 47uF 20% 35V CERAMIC 0.01uF 10% 100V		L19 L20 L21 L22 L23	1-408-785-2 1-408-785-2 1-408-785-2 1-408-785-2	21 s 21 s 21 s	INDUCTOR INDUCTOR INDUCTOR	CHIP CHIP	47uH 47uH 47uH	
C805 C806			CERAMIC 0.01uF 10% 100V MYLAR 0.01uF 5% 50V		L24 L25 L26	1-410-393-1 1-410-385-4 1-408-785-2	41 s	INDUCTOR	CHIP	22uH	
CN11 CN605 CN606	1-573-782-2	1 o	CONNECTOR 6P, MALE CONNECTOR, PHEC 60P, MALE CONNECTOR, PHEC 60P, MALE		L27 L28	1-410-391-1 1-410-386-1	l1 s	INDUCTOR	, CHIE	68uH	
D1 D3 D4 D241 D700	8-719-941-8 8-719-941-8 8-719-941-8 8-719-800-7	6 s 6 s 6 s 6 s	DIODE DAN202U DIODE DAN202U DIODE DAN202U DIODE 1SS226 DIODE DAN202U		L29 L30 L45 L46 L47	1-410-391-1 1-408-785-2 1-408-785-2 1-408-785-2 1-410-386-2	21 s 21 s 21 s	INDUCTOR INDUCTOR INDUCTOR	CHIP CHIP CHIP	47uH 47uH 47uH	
D701 D702 D703 D704	8-719-941-8 8-719-800-7 8-719-941-8	6 s 6 s 6 s	DIODE DAN202U DIODE 1SS226 DIODE DAN202U DIODE DAN202U		L501 L502 L503 L504 L505	1-410-658-3 1-410-656-1 1-410-389-3 1-410-655-3 1-412-280-3	11 s 31 s 31 s	INDUCTOR INDUCTOR INDUCTOR	CHIP CHIP CHIF	150uH 47uH 120uH	
DL1	1-415-403-2	1 s	DELAY LINE 1uS		L506 L507	1-410-380-3 1-412-280-3	31 s	INDUCTOR	, CHIE	8.2uH	
FL1 FL2 FL3 FL4	1-236-716-1 1-236-835-1	1 s 1 s	FILTER, LOW-PASS 2.5MHz FILTER, LOW-PASS 5MHz FILTER, BANDPASS 4.43MHz FILTER, CERAMIC 5.17MHz		L527 L700 L701	1-408-785-2 1-408-785-2 1-408-785-2	21 s 21 s	INDUCTOR INDUCTOR	CHIP CHIP	47uH 47uH	
FL5	1-236-186-1 8-759-239-3	1 s 4 s	FILTER, BAND PASS 4.43MHz IC TC74HC4538AF		L702 L703 L704	1-408-785-2 1-410-384-3 1-410-380-3	31 s 31 s	INDUCTOR INDUCTOR	CHIP CHIP	18uH 2 8.2uH	
IC2 IC3 IC4 IC5	8-759-710-8 8-759-710-8	6 s 6 s	IC NJM2233BM IC NJM2233BM IC NJM2233BM		L705 L706 L707	1-410-382-3 1-410-379-3 1-408-785-2	31 s	INDUCTOR	CHIP	6.8uH	
IC6 IC7	8-759-710-8 8-752-337-0	6 s 4 s	IC NJM2233BM IC NJM2233BM IC CXD1176Q		L708 L709 L710	1-408-785-2 1-410-391-1 1-410-387-1	21 s l1 s l1 s	INDUCTOR INDUCTOR INDUCTOR	CHIP CHIF CHIF	47uH 9 68uH 9 33uH	
IC8 IC9 IC10	8-752-054-6	2 s	IC CXD2105AQ IC CXA1207AR IC CXA1208R		L713 L714 L715	1-408-785-2 1-408-785-2 1-408-785-2	21 s	INDUCTOR	CHIP	47uH	
IC11 IC14			IC NJM78L05A		L716	1-408-785-2					

Q1 Q2 Q3 Q4 Q5

8-759-708-05 s IC NJM78L05A 8-759-700-43 s IC NJM4558M 8-759-239-34 s IC TC74HC4538AF 8-759-710-86 s IC NJM2233BM 8-759-700-43 s IC NJM4558M

8-759-710-86 s IC NJM2233BM

IC11 IC14 IC700 IC701

IC702 IC703 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

(MD-89 BOARD)			(MD-89 BOARD)		
Ref. No. or Q'ty	Part No. SP Description		Part No. SP Description		
Q6	8-729-905-18 s TRANSISTOR DTC144EU	Q86	8-729-905-18 s TRANSISTOR DTC144EU		
Q7	8-729-905-18 s TRANSISTOR DTC144EU	Q87	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q8	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q88	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q9	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q89	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q10	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q90	8-729-905-18 s TRANSISTOR DTC144EU		
Q11	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	091	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q12	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q13	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q14	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q17	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		8-729-905-24 s TRANSISTOR 2SA1576-S		
Q18	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q241	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q19	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q242	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q20	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q243	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q21	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q244	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q22	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q245	8-729-905-24 s TRANSISTOR 2SA1576-S		
Q23	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q246	8-729-903-82 s TRANSISTOR FMW2		
Q24	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q501	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q25	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q503	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q26	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q504	8-729-905-18 s TRANSISTOR DTC144EU		
Q27	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q505	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q28	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q506	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q29	8-729-905-12 s TRANSISTOR DTA144EU	Q507	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q30	8-729-905-18 s TRANSISTOR DTC144EU	Q508	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q31	8-729-905-12 s TRANSISTOR DTA144EU	Q509	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q32	8-729-905-18 s TRANSISTOR DTC144EU	Q510	8-729-905-18 s TRANSISTOR DTC144EU		
Q33	8-729-905-12 s TRANSISTOR DTA144EU	0700	8-729-905-12 s TRANSISTOR DTA144EU		
Q34	8-729-905-18 s TRANSISTOR DTC144EU	0701	8-729-905-24 s TRANSISTOR 2SA1576-S		
Q35	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	0702	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q36	8-729-905-12 s TRANSISTOR DTA144EU	0703	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q37	8-729-905-12 s TRANSISTOR DTA144EU	0704	8-729-905-24 s TRANSISTOR 2SA1576-S		
Q38	8-729-905-12 s TRANSISTOR DTA144EU	0705	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q39	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	0706	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q40	8-729-905-24 s TRANSISTOR 2SA1576-S	0707	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q41	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	0708	8-729-905-24 s TRANSISTOR 2SA1576-S		
Q42	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	0709	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q43	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q710	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q44	8-729-905-18 s TRANSISTOR DTC144EU	Q711	8-729-905-18 s TRANSISTOR DTC144EU		
Q45	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q712	8-729-905-12 s TRANSISTOR DTA144EU		
Q46	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q715	8-729-905-24 s TRANSISTOR 2SA1576-S		
Q47	8-729-905-24 s TRANSISTOR 2SA1576-S	Q716	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q48	8-729-905-24 s TRANSISTOR 2SA1576-S	0717	8-729-905-24 s TRANSISTOR 2SA1576-S		
Q51	8-729-905-24 s TRANSISTOR 2SA1576-S	0718	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q52	8-729-905-18 s TRANSISTOR DTC144EU	0719	8-729-905-24 s TRANSISTOR 2SA1576-S		
Q54	8-729-905-18 s TRANSISTOR DTC144EU	0720	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q55	8-729-905-18 s TRANSISTOR DTC144EU	0721	8-729-202-38 s TRANSISTOR 2SC3326N		
Q56	8-729-905-18 s TRANSISTOR DTC144EU	0722	8-729-202-38 s TRANSISTOR 2SC3326N		
Q57	8-729-202-38 s TRANSISTOR 2SC3326N	0723	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q58	8-729-202-38 s TRANSISTOR 2SC3326N	0724	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
Q75	8-729-905-12 s TRANSISTOR DTA144EU	0725	8-729-202-38 s TRANSISTOR 2SC3326N		
Q76	8-729-905-18 s TRANSISTOR DTC144EU	0726	8-729-202-38 s TRANSISTOR 2SC3326N		
077	8-729-905-18 s TRANSISTOR DTC144EU	0727	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
078	8-729-905-18 s TRANSISTOR DTC144EU	0728	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
079	8-729-117-16 s TRANSISTOR 2SA1611-M6	0729	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
080	8-729-905-12 s TRANSISTOR DTA144EU	0731	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
081	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	0732	8-729-905-24 s TRANSISTOR 2SA1576-S		
082	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q733	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		
083	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q734	8-729-202-38 s TRANSISTOR 2SC3326N		
084	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q735	8-729-202-38 s TRANSISTOR 2SC3326N		
085	8-729-905-18 s TRANSISTOR DTC144EU	Q736	8-729-120-28 s TRANSISTOR 2SC1623-L5L6		

(MD-89 BOARD)

	. No. Q'ty Part No. SP Description
Q737       8-729-905-12 s       TRANSISTOR DTA144EU       R61         Q750       8-729-905-12 s       TRANSISTOR DTA144EU       R62         Q751       8-729-905-12 s       TRANSISTOR DTA144EU       R63         Q752       8-729-905-12 s       TRANSISTOR DTA144EU       R64         Q753       8-729-120-28 s       TRANSISTOR 2SC1623-L5L6       R65	1-216-049-00 s METAL. CHIP 1K 5% 1/10W 1-216-651-11 s METAL. CHIP 1K 0.5% 1/10W 1-216-651-11 s METAL. CHIP 1K 0.5% 1/10W
Q754       8-729-120-28 s       TRANSISTOR 2SC1623-L5L6       R66         Q755       8-729-202-38 s       TRANSISTOR 2SC3326N       R67         Q756       8-729-202-38 s       TRANSISTOR 2SC3326N       R73         Q758       8-729-202-38 s       TRANSISTOR 2SC3326N       R74         R75       R75	1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R1 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R2 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R76 R3 1-216-025-00 s METAL, CHIP 100 5% 1/10W R77 R4 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R78 R5 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R80	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
R6 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R7 1-216-025-00 s METAL, CHIP 100 5% 1/10W R8 1-216-025-00 s METAL, CHIP 100 5% 1/10W R8 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R9 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R90 R90	1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R11 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R12 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R13 1-216-675-91 s METAL, CHIP 10K 0.50% 1/10W R14 1-216-025-00 s METAL, CHIP 10K 5% 1/10W R15 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R94 R95	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-697-11 s METAL, CHIP 82K 0.5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
R16 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R17 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R18 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R19 1-216-105-91 s METAL, CHIP 220K 5% 1/10W R21 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R99 R10	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W
R23 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R24 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R25 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R26 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W R27 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R10. R27 R10.	1 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0
R28 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R29 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R31 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R32 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R33 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R100 R31 R310	1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-037-00 s METAL, CHIP 330 5% 1/10W
R34 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W R35 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R36 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R37 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W R38 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R11. R38 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R11.	1 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W 2 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 3 1-216-013-00 s METAL, CHIP 33 5% 1/10W 4 1-216-017-00 s METAL, CHIP 47 5% 1/10W
R39 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R40 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R41 1-216-001-00 s METAL, CHIP 10 5% 1/10W R42 1-216-620-91 s METAL, CHIP 51 0.50% 1/10W R43 1-216-630-11 s METAL, CHIP 130 0.5% 1/10W R118 R43 1-216-630-11 s METAL, CHIP 130 0.5% 1/10W R118	6 1-216-067-91 s METAL, CHIP 5.6K 5% 1/10W 7 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 8 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 9 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R45 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R50 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W R52 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W R53 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R54 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W R55 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W R12	1 1-216-075-00 s METAL, CHIP 12K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-079-00 s METAL, CHIP 18K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R56 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R57 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R58 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W R59 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R60 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R12	6 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W 7 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 8 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

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(MD-89 BOARD)
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Ref. No.
or Q'ty Part No.
                                                         SP Description
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                       1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W
                                                                                                                                                                                                            1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-072-00 s METAL, CHIP 9.1K 5% 1/10W 1-216-662-11 s METAL, CHIP 3K 0.5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W
R130
                                                                                                                                                                                    R241
                                                                                                                                                                                    R242
R131
                                                                                                                                                                                    R243
R132
R133
                                                                                                                                                                                    R244
                                                                                                                                                                                                             1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
                                                                                                                                                                                    R245
                                                                                                                                                                                                            1-216-079-00 s METAL, CHIP 18K 5% 1/10W
1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
1-216-646-11 s METAL, CHIP 620 0.5% 1/10W
1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
1-216-077-00 s METAL, CHIP 15K 5% 1/10W
                       1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-025-00 s METAL, CHIP 100 5% 1/10W
                                                                                                                                                                                    R246
R135
R137
                                                                                                                                                                                    R247
                                                                                                                                                                                    R248
R139
                                                                                                                                                                                    R249
R140
R141
                                                                                                                                                                                    R250
R143
                        1-216-295-00 s METAL, CHIP 0
                                                                                                                                                                                    R251
                                                                                                                                                                                                             1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
                                                                                                                                                                                                            1-216-097-00 s METAL, CHIP 100K 5% 1/10W
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
1-216-097-00 s METAL, CHIP 100K 5% 1/10W
                       1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
                                                                                                                                                                                    R252
R144
R145
                                                                                                                                                                                    R253
                                                                                                                                                                                    R254
R146
                                                                                                                                                                                    R255
R147
                        1-216-017-00 s METAL, CHIP 47 5% 1/10W
1-216-673-91 s METAL, CHIP 8.2K 0.50% 1/10W
1-216-673-91 s METAL, CHIP 8.2K 0.50% 1/10W
1-216-049-00 s METAL, CHIP 1K 5% 1/10W
1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W
                                                                                                                                                                                                            1-218-769-11 s METAL, CHIP 510K 0.50% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R148
                                                                                                                                                                                   R256
R149
                                                                                                                                                                                   R272
                                                                                                                                                                                    R273
R150
R152
                                                                                                                                                                                   R274
R153
                                                                                                                                                                                   R275
                       1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-013-00 s METAL, CHIP 33 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
                                                                                                                                                                                                            1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
R154
                                                                                                                                                                                   R276
                                                                                                                                                                                   R277
R155
                                                                                                                                                                                   R278
R156
R157
                                                                                                                                                                                   R279
R158
                                                                                                                                                                                   R280
R159
                        1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
                                                                                                                                                                                    R281
                                                                                                                                                                                                             1-216-047-00 s METAL, CHIP 820 5% 1/10W
                        1-216-643-11 S METAL, CHIP 470 0.5% 1/10W
1-216-081-00 S METAL, CHIP 22K 5% 1/10W
1-216-081-00 S METAL, CHIP 22K 5% 1/10W
1-216-081-00 S METAL, CHIP 22K 5% 1/10W
                                                                                                                                                                                                            1-216-025-00 s METAL, CHIP 100 5% 1/10W

1-216-057-91 s METAL, CHIP 100 5% 1/10W

1-216-643-11 s METAL, CHIP 470 0.5% 1/10W

1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
                                                                                                                                                                                   R282
R160
                                                                                                                                                                                   R283
R161
                                                                                                                                                                                   R284
R162
                                                                                                                                                                                   R285
R163
                        1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
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R164
                                                                                                                                                                                   R286
R165
                                                                                                                                                                                   R287
                                                                                                                                                                                   R288
R167
R168
                                                                                                                                                                                   R289
                                                                                                                                                                                   R291
R169
                        1-216-295-00 s METAL, CHIP 0
1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
1-216-041-00 s METAL, CHIP 470 5% 1/10W
1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
                                                                                                                                                                                                            1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
                                                                                                                                                                                   R292
R171
R172
                                                                                                                                                                                   R293
R173
                                                                                                                                                                                   R294
R175
                                                                                                                                                                                   R295
R176
                                                                                                                                                                                   R296
                        1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-218-754-11 s METAL, CHIP 120K 0.50% 1/10W
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                                                                                                                                                                                   R297
R179
                                                                                                                                                                                   R298
R180
                                                                                                                                                                                   R299
R181
R182
                                                                                                                                                                                   R300
R185
                                                                                                                                                                                   R301
                                                                                                                                                                                                            1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-295-00 s METAL, CHIP 0
                        1-216-081-00 s METAL, CHIP 22K 5% 1/10W
1-218-760-11 s METAL 220K 0.5% 1/10W
1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W
1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
1-216-630-11 s METAL, CHIP 130 0.5% 1/10W
R188
                                                                                                                                                                                   R303
                                                                                                                                                                                   R304
R189
R190
                                                                                                                                                                                   R305
R191
                                                                                                                                                                                   R306
                        1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-641-11 s METAL, CHIP 390 0.5% 1/10W
R192
                                                                                                                                                                                   R307
                                                                                                                                                                                                            1-216-295-00 s METAL, CHIP 0
                                                                                                                                                                                   R308
                                                                                                                                                                                                            1-216-295-00 s METAL, CHIP 0
R193
                                                                                                                                                                                                           1-216-295-00 s METAL, CHIP 0
1-216-295-00 s METAL, CHIP 0
1-216-295-00 s METAL, CHIP 0
                                                                                                                                                                                   R309
R194
R195
                                                                                                                                                                                   R311
R196
                                                                                                                                                                                   R312
                       1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W
                                                                                                                                                                                                            1-216-295-00 s METAL, CHIP 0 1-216-295-00 s METAL, CHIP 0
R197
                                                                                                                                                                                   R313
R198
                                                                                                                                                                                   R314
                                                                                                                                                                                   R315
                                                                                                                                                                                                            1-216-295-00 s METAL, CHIP 0
                                                                                                                                                                                                            1-216-295-00 s METAL, CHIP 0
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Ref. No. Ref. No. or Q'ty Part No. SP Description or Q'ty Part No. SP Description 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-648-11 s METAL, CHIP 750 0.5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0 R320 R532 R321 R533 R322 R535 R323 R536 R324 R700 1-216-295-00 s METAL, CHIP 0 1-216-295-00 s METAL, CHIP 0 1-216-295-00 s METAL, CHIP 0 1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W 1-216-675-91 s METAL, CHIP 10K 0.50% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W R325 R701 R326 R702 R703 R329 R331 R704 R334 R705 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-672-91 s METAL, CHIP 7.5K 0.50% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-059-00 s METAL, CHIP 2.7K 5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-688-11 s METAL, CHIP 36K 0.5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-109-91 s METAL, CHIP 330K 5% 1/10W R335 R336 R707 R340 R708 R709 R341 R342 R710 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R343 R711 R344 R712 R714 R345 R348 R715 R350 R716 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R351 R717 R352 R718 R719 R353 R354 R720 R355 R721 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R360 R722 R723 R361 R724 R364 R725 R365 R501 R726 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W R502 R727 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W 1-216-081-00 s METAL, CHIP 27K 0.5% 1/10W 1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W R504 R728 R729 R505 R730 R506 R507 R731 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W R508 R732 R509 R733 R510 R734 R511 R735 R512 R736 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-641-11 s METAL, CHIP 390 0.5% 1/10W 1-216-079-00 s METAL, CHIP 18K 5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W R513 R737 R514 R738 R739 R515 R516 R740 R517 R741 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-083-00 s METAL, CHIP 33K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R518 R742 R743 R519 R744 R520 R521 R745 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W R522 R746 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W R523 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W R749 R524 R525 R751 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W R752 R526 R527 R753 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-013-00 s METAL, CHIP 33 5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R528 R754 R529 R755 R756 R530 R531 R762

(MD-89 BOARD)

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(MD-89 BOARD)
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Ref. No.
or Q'ty Part No.
                                                  SP Description
                     1-216-013-00 s METAL, CHIP 33 5% 1/10W
1-216-031-00 s METAL, CHIP 180 5% 1/10W
1-216-089-91 s METAL, CHIP 47K 5% 1/10W
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
1-216-621-11 s METAL, CHIP 56 0.5% 1/10W
R764
R765
R766
R768
                     1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
R769
R771
R772
R773
R774
                     1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W
R775
R776
                     1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-295-00 s METAL, CHIP 0
R777
R779
R780
                      1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
                     1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W
R782
R784
R785
R786
R787
R788
                     1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
                     1-216-083-00 s METAL, CHIP 27K 5% 1/10W
1-216-081-00 s METAL, CHIP 22K 5% 1/10W
1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
R789
R790
R792
R793
                     1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W
R794
R795
                     1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
1-216-025-00 s METAL, CHIP 100 5% 1/10W
R796
R797
R798
                     1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
                    1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-295-00 s METAL, CHIP 0
R799
R800
R801
R802
R803
                    1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
R804
R805
R807
R808
R810
                     1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W
R812
R813
                    1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-295-00 s METAL, CHIP 0
R814
R815
R816
R817
                     1-216-650-11 s METAL, CHIP 910 0.5% 1/10W
                    1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-295-00 s METAL, CHIP 0
R818
R819
                     1-216-089-91 s METAL, CHIP 47K 5% 1/10W
1-216-089-91 s METAL, CHIP 47K 5% 1/10W
R820
R821
                    1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R822
R823
R824
R825
R826
                    1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
R827
R828
R829
R833
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## (MD-89 BOARD)

Ref. No.

or Q'ty	Part No. SP Description
R850	1-216-045-00 s METAL, CHIP 680 5% 1/10W 1-216-045-00 s METAL, CHIP 680 5% 1/10W
R851	1-216-045-00 s METAL, CHIP 680 5% 1/10W
R852	1-216-045-00 s METAL, CHIP 680 5% 1/10W
R853	1-216-089-91 s METAL, CHIP 47K 5% 1/10W
R854	1-216-045-00 s METAL, CHIP 680 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
R855	1-216-295-00 s METAL, CHIP 0
R856	1-216-295-00 s METAL, CHIP 0
RV1	1-238-798-11 s RES, ADJ METAL 500
RV2	1-238-801-11 s RES, ADJ METAL 5K
RV3	1-238-801-11 s RES, ADJ METAL 5K
RV4	1-238-803-11 s RES, ADJ METAL 20K
RV5	1-238-801-11 s RES, ADJ METAL 5K 1-238-801-11 s RES, ADJ METAL 5K 1-238-803-11 s RES, ADJ METAL 20K 1-238-803-11 s RES, ADJ METAL 20K
RV6	1-238-801-11 s RES, ADJ METAL 5K
RV7	1-238-801-11 s RES, ADJ METAL 5K
RV8	1-238-801-11 s RES, ADJ METAL 5K
RV10	1-238-804-11 s RES. ADJ METAL 50K
RV13	1-238-801-11 s RES, ADJ METAL 5K 1-238-801-11 s RES, ADJ METAL 5K 1-238-804-11 s RES, ADJ METAL 5OK 1-238-799-11 s RES, ADJ METAL 1K
RV14	1-238-802-11 s RES, ADJ METAL 10K
RV15	1-238-801-11 s RES, ADJ METAL 5K 1-238-801-11 s RES, ADJ METAL 5K 1-238-799-11 s RES, ADJ METAL 1K
RV16	1-238-801-11 s RES. ADJ METAL 5K
RV17	1-238-799-11 s RES. ADJ METAL 1K
RV18	1-238-807-11 s RES, ADJ METAL 500K
RV700	1-238-800-11 s RES, ADJ METAL 2K 1-238-800-11 s RES, ADJ METAL 2K 1-238-800-11 s RES, ADJ METAL 2K 1-238-800-11 s RES, ADJ METAL 2K
RV702	1-238-800-11 s RES, ADJ METAL 2K
RV703	1-238-800-11 s RES. ADJ METAL 2K
RV704	1-238-800-11 s RES ADJ METAL 2K
RV705	1-238-800-11 s RES, ADJ METAL 2K
RV706	1-238-800-11 s RES. ADJ METAL 2K
RV707	1-238-800-11 s RES. ADJ METAL 2K
RV708	1-238-800-11 s RES, ADJ METAL 2K 1-238-800-11 s RES, ADJ METAL 2K 1-238-800-11 s RES, ADJ METAL 2K
X1	1-577-117-21 s CRYSTAL 4.433619MHz

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MS-36 BOARD
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Ref. No.

or Q'ty Part No. SP Description

1pc A-7071-498-A O MOUNTED CIRCUIT BOARD, MS-36 1pc 1-163-038-11 s CAP, CHIP CERAMIC 0.1MF 25V 1pc 1-506-485-11 O PIN, CONNECTOR, 6P

# MT-57A BOARD

Ref. No. or Q'ty Part No. SP Description

A-8271-224-A o MOUNTED CIRCUIT BOARD, MT-57A 1-520-506-11 s METER, AUDIO LEVEL 3-738-923-01 o HOLDER, LED 2pcs 2pcs CN802 1-506-483-21 s CONNECTOR, 4P, MALE 8-719-820-27 s LED TLY-256, YEL D1 D2 D3 D4 1-249-411-11 s CARBON 330 5% 1/4W 1-249-411-11 s CARBON 330 5% 1/4W R2

# PD-62 BOARD

Ref. No. or Q'ty Part No. SP Description

1pc A-8271-713-A o MOUNTED CIRCUIT BOARD, 1 C101 1-135-211-11 s TANTALUM, CHIP 6.8uF 20 C102 1-163-035-00 s CERAMIC, CHIP 0.047uF 50 C103 1-135-211-11 s TANTALUM, CHIP 6.8uF 20	6.3V V 6.3V
C102 1-163-035-00 s CERAMIC, CHIP 0.047uF 50 C103 1-135-211-11 s TANTALUM, CHIP 6.8uF 209	)V % 6.3V
C104 1-163-035-00 s CERAMIC, CHIP 0.047uF 50 C105 1-135-211-11 s TANTALUM, CHIP 6.8uF 209	ענ ≨ 63V
C106 1-163-035-00 s CERAMIC, CHIP 0.047uF 50 C107 1-135-211-11 s TANTALUM, CHIP 6.8uF 209 C108 1-163-035-00 s CERAMIC, CHIP 0.047uF 50 C109 1-163-035-00 s CERAMIC, CHIP 0.047uF 50 C110 1-163-035-00 s CERAMIC, CHIP 0.047uF 50	)V * 6.3V )V )V
C111 1-135-166-21 s TANTALUM, CHIP 47uF 10% C112 1-163-035-00 s CERAMIC, CHIP 0.047uF 50	10V )V
CN252 1-563-863-21 o CONNECTOR, 26P, MALE	
IC101 8-759-175-99 s IC CXD8370Q IC102 8-752-331-00 s IC CXK5864BM-12L IC103 8-752-331-00 s IC CXK5864BM-12L IC104 8-759-926-77 s IC SN74HC541NS IC105 8-759-926-77 s IC SN74HC541NS	
IC106 8-759-926-77 s IC SN74HC541NS	
1-410-393-11 s INDUCTOR CHIP 100uH 1-410-393-11 s INDUCTOR CHIP 100uH 1-410-393-11 s INDUCTOR CHIP 100uH 1-410-393-11 s INDUCTOR CHIP 100uH 1-410-393-11 s INDUCTOR CHIP 100uH	
R101 1-216-089-91 s METAL, CHIP 47K 5% 1/10k R102 1-216-089-91 s METAL, CHIP 47K 5% 1/10k R103 1-216-089-91 s METAL, CHIP 47K 5% 1/10k R104 1-216-089-91 s METAL, CHIP 47K 5% 1/10k R105 1-216-089-91 s METAL, CHIP 47K 5% 1/10k	ł ł
R106 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R107 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R108 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R109 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R110 1-216-089-91 s METAL, CHIP 47K 5% 1/10V	l- l l
R111 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R112 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R113 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R114 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R115 1-216-089-91 s METAL, CHIP 47K 5% 1/10V	i 1
R116 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R117 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R118 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R119 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R120 1-216-089-91 s METAL, CHIP 47K 5% 1/10V	t 1 1
R121 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R122 1-216-089-91 s METAL, CHIP 47K 5% 1/10V R123 1-216-089-91 s METAL, CHIP 47K 5% 1/10V	1

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(PRE-10P BOARD)
PRE-10P BOARD
Ref. No.
                                                                                                                                            Ref. No.
or Q'ty Part No.
                                            SP Description
                                                                                                                                            or Q'ty Part No.
                                                                                                                                                                                         SP Description
                                                                                                                                                              1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-124-477-11 s ELECT 47uF 20% 25V
                  A-8271-857-A O MOUNTED CIRCUIT BOARD, PRE-10P
3-947-136-01 O PLATE, SHIELD, RF
7-682-947-01 s SCREW +PSW 3x6
                                                                                                                                            C62
1nc
1pc
                                                                                                                                            C63
                                                                                                                                            C64
1pc
                                                                                                                                            C65
                 1-124-477-11 s ELECT 47uF 20% 25V
                                                                                                                                            C66
                  1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V
C2
                                                                                                                                                               1-163-038-91 s CERAMIC, CHIP 0.1uF 25V 1-124-477-11 s ELECT 47uF 20% 25V
C3
                                                                                                                                            C67
                                                                                                                                            C68
                                                                                                                                                               1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C5
                                                                                                                                            C70
                                                                                                                                                               1-124-477-11 s ELECT 47uF 20% 25V
                                                                                                                                            C71
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-124-477-11 s ELECT 47uF 20% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                                               1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C6
                                                                                                                                            C72
C7
                                                                                                                                                               1-124-477-11 s ELECT 47uF 20% 25V
1-124-477-11 s ELECT 47uF 20% 25V
                                                                                                                                            C73
83
С9
                                                                                                                                           C74
                                                                                                                                                               1-164-378-11 s CERAMIC, CHIP 30PF 5% 50V
1-164-378-11 s CERAMIC, CHIP 30PF 5% 50V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C11
                                                                                                                                            C75
                                                                                                                                            C76
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-124-477-11 s ELECT 47uF 20% 25V
C12
                                                                                                                                            C77
C13
                                                                                                                                                              1-163-038-91 s CERAMIC, CHIP 0.1uF 25V 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
                                                                                                                                           C78
C14
                                                                                                                                            C79
C15
                   1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                            C80
C16
                                                                                                                                            C81
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
                                                                                                                                            C82
C18
                                                                                                                                                              1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
C19
                                                                                                                                           C83
C20
                                                                                                                                           C84
C21
                                                                                                                                           C99
                                                                                                                                           C100
                   1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C22
                                                                                                                                           C101
                  1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C23
C24
                                                                                                                                            C102
                                                                                                                                                               1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
                                                                                                                                                              1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
C25
                                                                                                                                           C103
C27
                                                                                                                                           C104
                                                                                                                                           C105
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C28
                                                                                                                                           C106
C29
                                                                                                                                                              1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-995-11 s CERAMIC, CHIP 0.022uF 50V
1-164-816-11 s CERAMIC, CHIP 220PF 2% 50V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
                   1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C30
                                                                                                                                           C107
                  1-124-477-11 s ELECT 47uF 20% 25V
1-124-477-11 s ELECT 47uF 20% 25V
C31
                                                                                                                                           C150
C32
                                                                                                                                           C151
                                                                                                                                           C152
                  1-163-038-91 s CERAMIC, CHIP 0.1uF 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-124-477-11 s ELECT 47uF 20% 25V
                                                                                                                                           C153
C35
                                                                                                                                                              1-162-924-11 s CERAMIC 56PF 5% 50V
1-162-924-11 s CERAMIC 56PF 5% 50V
C36
                                                                                                                                           C158
                                                                                                                                           C159
C37
                                                                                                                                                              1-162-910-11 s CERAMIC, CHIP 5PF 50V
1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V
C38
                                                                                                                                           C201
                                                                                                                                           C202
                  1-124-477-11 s ELECT 47uF 20% 25V
1-124-477-11 s ELECT 47uF 20% 25V
                                                                                                                                                              1-107-208-00 s MICA 18PF 5% 500V
C39
                                                                                                                                           C203
C40
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C41
                                                                                                                                           CN1
                                                                                                                                                              1-506-472-11 s CONNECTOR 7P, MALE
                                                                                                                                           CN511
                                                                                                                                                              1-506-480-11 s CONNECTOR, 15P, MALE
C42
                                                                                                                                                              1-568-964-11 s CONNECTOR, 6P, MALE
1-566-761-11 o CONNECTOR 6P, MALE
C43
                                                                                                                                           CN512
                                                                                                                                           CN513
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                                              1-564-001-11 o CONNECTOR, 2P, MALE
C44
                                                                                                                                           CN514
C45
C46
                                                                                                                                           DL1
                                                                                                                                                              1-415-162-21 s DELAY LINE 50ns
                   1-124-477-11 s ELECT 47uF 20% 25V
C47
                                                                                                                                                              8-752-030-66 s IC CXA1077M
8-759-923-63 s IC TL592PS
8-759-923-63 s IC TL592PS
8-759-710-86 s IC NJM2233BM
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C48
                                                                                                                                           IC1
                                                                                                                                           IC2
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C49
                                                                                                                                           IC3
C51
                                                                                                                                           IC4
C52
                                                                                                                                           IC5
                                                                                                                                                              8-759-710-86 s IC NJM2233BM
C53
                                                                                                                                                              8-759-925-76 s IC SN74HC08NS
8-759-925-74 s IC TC74HC04NS
C54
                                                                                                                                           IC6
                                                                                                                                           IC7
                                                                                                                                                              8-752-030-66 s IC CXA1077M
8-759-923-63 s IC TL592PS
C55
                  1-124-477-11 s ELECT 47uF 20% 25V
                                                                                                                                           108
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C56
                                                                                                                                           IC9
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                                              8-759-923-63 s IC TL592PS
C57
                                                                                                                                           IC10
                                                                                                                                                              8-759-710-86 s IC NJM2233BM
                                                                                                                                                              8-759-710-86 s IC NJM2233BM
                                                                                                                                           IC12
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(PRE-10	P BOARD)	(PRE-10P	BOARD)
Ref. No.	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
IC13 IC14	8-759-923-63 s IC TL592PS 8-759-710-86 s IC NJM2233BM	R12 R13 R15	1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-218-735-11 s METAL, CHIP 62K 0.50% 1/16W 1-218-735-11 s METAL, CHIP 62K 0.50% 1/16W
L1 L2 L3	1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH	R19 R20	1-216-803-11 s METAL, CHIP 33 5% 1/16W 1-216-803-11 s METAL, CHIP 33 5% 1/16W
L4 L5	1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH	R21 R22 R23	1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-803-11 s METAL, CHIP 33 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
L6 L7 L8	1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH	R26 R27	1-216-817-11 s METAL. CHIP 470 5% 1/16W 1-216-822-11 s METAL. CHIP 1.2K 5% 1/16W
L9 L10	1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH	R29 R30 R31	1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W 1-216-820-11 s METAL, CHIP 820 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
L11 L12 L13	1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH	R32 R33	1-218-676-11 s METAL, CHIP 220 0.50% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
L14 L15	1-410-375-11 s INDUCTOR, CHIP 3.3uH 1-410-375-11 s INDUCTOR, CHIP 3.3uH	R34 R35 R36	1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
116	1-408-785-21 s INDUCTOR CHIP 47uH	R37	1-216-837-11 s METAL, CHIP 22K 5% 1/16W
117	1-408-785-21 s INDUCTOR CHIP 47uH	R38	1-216-837-11 s METAL, CHIP 22K 5% 1/16W
Q1	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R39	1-216-833-11 s METAL, CHIP 10K 5% 1/16W
Q2	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R40	1-216-833-11 s METAL, CHIP 10K 5% 1/16W
Q3	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R42	1-218-676-11 s METAL, CHIP 220 0.50% 1/16W
Q4	8-729-905-24 s TRANSISTOR 2SA1576-S	R43	1-220-373-11 s METAL, CHIP 62K 0.50% 1/16W 1-218-676-11 s METAL, CHIP 220 0.50% 1/16W
Q5	8-729-102-07 s TRANSISTOR 2SC2223-F13	R44	
Q6	8-729-202-38 s TRANSISTOR 2SC3326N	R45	1-218-676-11 s METAL, CHIP 220 0.50% 1/16W
Q7	8-729-202-38 s TRANSISTOR 2SC3326N	R46	1-216-833-11 s METAL, CHIP 10K 5% 1/16W
Q8	8-729-202-38 s TRANSISTOR 2SC3326N	R47	1-216-833-11 s METAL, CHIP 10K 5% 1/16W
09	8-729-202-38 s TRANSISTOR 2SC3326N	R48	1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
010	8-729-905-18 s TRANSISTOR DTC144EU	R49	
Q11	8-729-905-24 s TRANSISTOR 2SA1576-S	R50	1-218-672-11 s METAL, CHIP 150 0.50% 1/16W
Q12	8-729-102-07 s TRANSISTOR 2SC2223-F13	R51	1-220-373-11 s METAL, CHIP 62K 0.50% 1/16W
Q13	8-729-102-07 s TRANSISTOR 2SC2223-F13	R52	1-218-270-11 s METAL, CHIP 1.1K 5% 1/16W
Q14	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R53	1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W
Q15	8-729-102-07 s TRANSISTOR 2SC2223-F13	R54	
Q16 Q17	8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-102-07 s TRANSISTOR 2SC2223-F13	R55 R56 R57	1-218-676-11 s METAL, CHIP 220 0.50% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W
Q18 Q19 Q20	8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-102-07 s TRANSISTOR 2SC2223-F13 8-729-102-07 s TRANSISTOR 2SC2223-F13	R58 R59	1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-838-11 s METAL, CHIP 27K 5% 1/16W
021	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R60	1-216-813-11 s METAL, CHIP 220 5% 1/16W
022	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R61	1-216-838-11 s METAL, CHIP 27K 5% 1/16W
Q23	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R62	1-216-841-11 s METAL, CHIP 47K 5% 1/16W
Q24	8-729-202-38 s TRANSISTOR 2SC3326N	R65	1-216-803-11 s METAL, CHIP 33 5% 1/16W
Q25	8-729-202-38 s TRANSISTOR 2SC3326N	R66	1-216-803-11 s METAL, CHIP 33 5% 1/16W
0150	8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R67	1-216-820-11 s METAL, CHIP 820 5% 1/16W
0201	8-729-109-44 s TRANSISTOR 2SK94	R68	1-216-803-11 s METAL, CHIP 33 5% 1/16W
Q202	8-729-109-44 s TRANSISTOR 2SK94	R69	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
Q203	8-729-901-06 s TRANSISTOR DTA144EK	R70	1-216-841-11 s METAL, CHIP 47K 5% 1/16W
Q204	8-729-901-01 s TRANSISTOR DTC144EK	R71	1-216-838-11 s METAL, CHIP 27K 5% 1/16W
R1	1-218-735-11 s METAL, CHIP 62K 0.50% 1/16W	R73	1-216-838-11 s METAL, CHIP 27K 5% 1/16W
R2	1-216-813-11 s METAL, CHIP 220 5% 1/16W	R77	1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3	1-218-735-11 s METAL, CHIP 62K 0.50% 1/16W	R78	1-216-803-11 s METAL, CHIP 33 5% 1/16W
R4	1-216-841-11 s METAL, CHIP 47K 5% 1/16W	R79	1-216-820-11 s METAL, CHIP 820 5% 1/16W
R7	1-216-803-11 s METAL, CHIP 33 5% 1/16W	R80	1-216-803-11 s METAL, CHIP 33 5% 1/16W
R8	1-216-803-11 s METAL, CHIP 33 5% 1/16W	R81	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R9	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R86	1-216-864-11 s METAL, CHIP 0 5% 1/16W
R10	1-216-803-11 s METAL, CHIP 33 5% 1/16W	R89	1-216-820-11 s METAL, CHIP 820 5% 1/16W
R11	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W	R90	1-216-833-11 s METAL, CHIP 10K 5% 1/16W

Ref. No. or Q'ty Part No. SP Description 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-829-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R94 R95 R96 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W R97 RQQ R101 R102 1-216-809-11 s METAL, CHIP 100 5% 1/16W R104 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R105 R106 R107 R108 R109 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R110 1-216-841-11 S METAL, CHIP 47K 5% 1/16W R111 R112 R113 R114 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R115 R116 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R150 R151 R152 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W R154 R155 R156 R157 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-249-429-11 s CARBON 10K 5% 1/4W R160 R161 1-216-857-11 s METAL, CHIP 1M 5% 1/16W 1-216-857-11 s METAL, CHIP 1M 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R201 R202 R203 R204 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-238-784-11 s RES, ADJ METAL 1K 1-238-784-11 s RES, ADJ METAL 1K RV1 RV2 1-238-784-11 s RES, ADJ METAL 1K 1-238-784-11 s RES, ADJ METAL 1K 1-238-784-11 s RES, ADJ METAL 1K RV3 RV4 RV5 1-238-784-11 s RES, ADJ METAL 1K 1-238-784-11 s RES, ADJ METAL 1K 1-238-784-11 s RES, ADJ METAL 1K RV6

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Ref. No.
or Q'ty Part No.
                           SP Description
           1-564-026-00 o CONTACT, FEMALE, AWG26-30
1-622-638-11 o PRINTED CIRCUIT BOARD, PTC-32
1pc
C1
           1-124-228-11 s ELECT 22uF 20% 10V
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CN4 1-562-151-11 s HOUSING, 6P 8-719-939-50 s PHOTOINTERRUPTER GP-1L52 TC1 8-719-939-50 s PHOTOINTERRUPTER GP-1L52 8-719-940-86 s PHOTOINTERRUPTER GP-1L53 IC2 IC3 8-719-939-50 s PHOTOINTERRUPTER GP-1L52 IC4 IC5 8-759-133-90 s IC UPC339C

### RM-101 BOARD -----

PTC-32 BOARD

Ref. No. or Q'ty Part No. SP Description 1-642-970-11 o PRINTED CIRCUIT BOARD, RM-101 CN1021 1-566-319-11 o CONNECTOR, D-SUB 15P, MALE

### RM-122 BOARD

Ref. No. or Q'ty Part No. SP Description 1-642-971-11 o PRINTED CIRCUIT BOARD, RM-122 1pc CN1022 1-563-770-11 s CONNECTOR, D-SUB 9P, FEMALE

RV7 RV8

Ref. No. or Q'ty	Part No. SP Description
	A-7061-818-A o MOUNTED CIRCUIT BOARD, RS-31 1-559-762-11 o CABLE, FLAT 22P 3-712-410-01 s HOLDER, RS
CN304 CN305	
D320 D321	8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226
IC301 IC302	8-759-908-81 s IC MB3763PF 8-759-908-81 s IC MB3763PF
PH302	8-719-939-11 s PHOTOINTERRUPTER GP-2S09-B 8-719-939-11 s PHOTOINTERRUPTER GP-2S09-B 8-719-939-11 s PHOTOINTERRUPTER GP-2S09-B
PS301 A	1-532-727-11 s LINK, IC 0.25A
Q304	8-729-805-25 s TRANSISTOR 2SB1121-S 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-901-01 s TRANSISTOR DTC144EK
	8-729-901-01 s TRANSISTOR DTC144EK 8-729-901-01 s TRANSISTOR DTC144EK
R302 R303	1-216-174-00 s METAL CHIP 100 5% 1/8W 1-216-186-00 s METAL 330 5% 1/8W

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SOPS-1031
Ref. No.
or Q'ty Part No.
                              SP Description
             1-543-060-00 s BEAD, FERRITE
1-543-923-11 s BEAD, FERRITE
2-625-950-01 o HEAT SINK (HS-1030)
2pcs
1pc
1pc
             2-626-077-01 o TUBE
1pc
             4-382-854-11 s SCREW (M3x10), P, SW (+)
1pc
             1-136-185-00 s FILM 0.22uF 20% 250V
1-136-185-00 s FILM 0.22uF 20% 250V
1-161-742-00 s CERAMIC 0.0022uF 20% 400V
1-161-742-00 s CERAMIC 0.0022uF 20% 400V
C101
C101
C102
C102
C103
             1-161-742-00 s CERAMIC 0.0022uF 20% 400V
C103
             1-161-742-00 s CERAMIC 0.0022uF 20% 400V
             1-161-742-00 $ CERAMIC 0.0022UF 20% 400V

1-136-185-00 $ FILM 0.22UF 20% 250V

1-136-185-00 $ FILM 0.22UF 20% 250V

1-161-742-00 $ CERAMIC 0.0022UF 20% 400V

1-161-742-00 $ CERAMIC 0.0022UF 20% 400V
C104
C104
C105
C105
             1-125-738-11 s ELECT 270uF 20% 250
1-125-738-11 s ELECT 270uF 20% 250
C106
C107
C108
             1-136-205-11 s FILM 0.022uF 5% 630
             1-124-122-11 s ELECT 100uF 20% 50V
1-124-907-11 s ELECT 10uF 20% 50V
C109
C110
             1-136-165-00 s FILM 0.1uF 5% 50V 1-110-342-11 s FILM 390PF 5% 50V
C111
C112
             1-130-487-00 s MYLAR 0.022uF 5% 50V
1-162-573-11 s CERAMIC 100PF 10% 400V
C113
C117
             1-162-573-11 s CERAMIC 100PF 10% 400V
C117
             1-130-487-00 s MYLAR 0.022uF 5% 50V
1-130-487-00 s MYLAR 0.022uF 5% 50V
C118
C203
             1-124-567-00 s ELECT 1200uF 20% 10V
1-126-241-11 s ELECT 1500uF 20% 16V
C210
C213
C214
             1-126-241-11 s ELECT 1500uF 20% 16V
C215
             1-128-102-11 s ELECT 1200uF 20% 16V
             1-136-165-00 s FILM 0.1uF 5% 50V
C216
             1-128-102-11 s ELECT 1200uF 20% 16V
1-124-527-11 s ELECT 8200uF 20% 6.3V
C217
C219
             1-124-527-11 s ELECT 8200uF 20% 6.3V
C220
             1-128-221-51 s ELECT 2200uF 20% 6.3
C222
             1-136-165-00 s FILM 0.1uF 5% 50V
1-124-604-00 s ELECT 330uF 20% 10V
C223
C225
             1-136-165-00 s FILM 0.1uF 5% 50V
C226
C227
             1-128-102-11 s ELECT 1200uF 20% 16V
C228
             1-126-316-51 s ELECT 470uF 20% 16V
C229
             1-136-165-00 s FILM 0.1uF 5% 50V
             1-130-487-00 s MYLAR 0.022uF 5% 50V
C231
             1-130-483-00 s MYLAR 0.01uF 5% 50V
C232
C233
             1-124-477-11 s ELECT 47uF 20% 25V
             1-565-395-11 o PIN, CONNECTOR 3P
1-564-210-00 o CONNECTOR, IL-S 12P, MALE
1-564-706-11 o PIN HEADER, STRAIGHT 4P
CN101
CN201
CN202
D101
             8-719-510-22 s DIODE D3SB60
             8-719-313-16 s DIODE AU02A
D102
            8-719-313-16 s DIODE AU02A
D103
             8-719-911-19 s DIODE 1SS119
D104
             8-719-912-20 s DIODE 1SS120
D104
D105
             8-719-109-84 s DIODE RD5.1ES-B1
             8-719-109-85 s DIODE RD5.1ES-B2
D105
            8-719-510-41 s DIODE D10SC9M
8-719-510-39 s DIODE D10LC20U
D201
D202
            8-719-510-12 s DIODE D10SC4M
D203
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Ref. No.
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or Q'ty Part No. SP Description

8-719-510-73 s DIODE S3L20UF4 8-719-510-73 s DIODE S3L20UF4 D205 D206 D207

8-719-911-19 s DIODE 1SS119 8-719-912-20 s DIODE 1SS120 D207

D209 8-719-911-19 s DIODE 1SS119

D209 8-719-912-20 s DIODE 1SS120 D210 8-719-110-30 s DIODE RD12ESB1 8-719-110-31 s DIODE RD12ESB2 8-719-109-90 s DIODE RD5.6ES-B2 D210

D211 8-719-123-54 s DIODE RD5.6ESL3 D211

IC101 8-759-520-23 s IC FA5304P

IC102 8-719-028-92 s PHOTO COUPLER PS2652-P-V IC102 8-719-159-90 s PHOTO COUPLER PS2652-P

8-719-028-92 s PHOTO COUPLER PS2652-P-V 8-719-159-90 s PHOTO COUPLER PS2652-P IC103 IC103

IC201 8-759-245-79 s IC TA79005S IC202 8-759-604-43 s IC M5F79M09L

IC203 8-759-321-95 s IC HA17431PA

L101 1-421-915-11 s FILTER, LINE

1-424-574-11 s L.F.T L102

1-424-255-41 s COIL, CHOKE (MOLDE) 10uH 1-424-255-41 s COIL, CHOKE (MOLDE) 10uH 1-424-255-41 s COIL, CHOKE (MOLDE) 10uH L201 L202 L203

L204 1-424-255-41 s COIL, CHOKE (MOLDE) 10uH

8-729-322-18 s TRANSISTOR 2SK1402A Q101

8-729-900-80 s TRANSISTOR DTC114ES 0201

R101 1-202-849-00 s SOLID 820K 10% 1/2W

1-243-011-11 s WIREWOUND 2.2 5% 5W R102

1-215-903-11 s METAL 68K 5% 2W 1-215-903-11 s METAL 68K 5% 2W R104 R105

R108 1-215-904-11 s METAL 100K 5% 2W

R109 1-215-904-11 s METAL 100K 5% 2W

1-215-902-11 s METAL 47K 5% 2W 1-215-902-11 s METAL 47K 5% 2W R110

R111 1-212-857-00 s FUSIBLE 10 5% 1/4W R112

R113 1-249-404-00 s CARBON 82 5% 1/4W

1-249-441-11 s CARBON 100K 5% 1/4W R114

1-249-397-11 s CARBON 22 5% 1/4W R115

R116

1-249-397-11 S CARBON 22 3% 1/4W 1-216-341-11 S METAL 0.22 5% 1W 1-249-405-11 S CARBON 100 5% 1/4W 1-247-903-00 S CARBON 1M 5% 1/4W R117

R118

R119

R120 R121

1-249-417-11 s CARBON 1K 5% 1/4W 1-249-404-00 s CARBON 82 5% 1/4W 1-249-425-11 s CARBON 4.7K 5% 1/4W 1-249-436-11 s CARBON 39K 5% 1/4W 1-215-888-00 s FILM 220 5% 2W R122

R205

R206 1-249-435-11 s CARBON 33K 5% 1/4W

R209 1-215-434-00 s METAL 3.6K 1% 1/6W

R211 1-249-427-11 s CARBON 6.8K 5% 1/4W 1-215-427-00 s METAL 1.8K 1% 1/6W R212

1-249-433-11 s CARBON 22K 5% 1/4W R213

1-249-417-11 s CARBON 1K 5% 1/4W R214

R215 1-249-417-11 s CARBON 1K 5% 1/4W

1-249-421-11 s CARBON 2.2K 5% 1/4W R216

1-215-888-00 s FILM 220 5% 2W R217

RV201 1-237-500-21 s RES, ADJ METAL 1K (SOPS-1031)

Ref. No.

or Q'ty Part No. SP Description

T101 1-450-841-11 s TRANSFORMER, CONVERTER

(SST-2AP BOARD)	(SST-2AP	BOARD)	
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty	Part No. SI	P Description
IC707 8-759-927-46 s IC SN74HCOONS IC801 8-752-037-08 s IC CXA1109M IC802 8-759-108-77 s IC CX877 IC803 8-759-100-95 s IC UPC324G2 IC804 8-759-981-82 s IC RC3414M	Q504 Q505 Q506 Q507 Q509	8-729-905-18 s 8-729-905-12 s 8-729-905-12 s	TRANSISTOR DTA144EU TRANSISTOR DTC144EU TRANSISTOR DTA144EU TRANSISTOR DTA144EU TRANSISTOR DTA144EU TRANSISTOR 2SB1121-S
IC805 8-759-100-93 s IC UPC393G2 IC806 8-759-207-00 s IC A7733F IC809 8-759-100-94 s IC UPC358G2 IC901 8-759-207-50 s IC TA7745F IC902 8-759-100-95 s IC UPC324G2	Q510 Q511 Q512 Q513 Q514	8-729-905-18 s 8-729-905-12 s 8-729-905-18 s	TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EU TRANSISTOR DTA144EU TRANSISTOR DTC144EU TRANSISTOR DTC144EU
IC903 8-759-925-66 s IC BA6303F IC904 8-759-008-67 s IC MC14066BF IC905 8-759-100-94 s IC UPC358G2 IC906 8-759-708-05 s IC NJM78L05A IC1001 8-759-100-97 s IC UPC339G2	Q602 Q603 Q604 Q605 Q706	8-729-905-24 s 8-729-120-28 s 8-729-905-24 s	TRANSISTOR DTA144EU TRANSISTOR 2SA1576-S TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1576-S TRANSISTOR 2SC1623-L5L6
IC1002 8-759-700-43 s IC NJM4558M IC1003 8-759-008-67 s IC MC14066BF L101 1-410-386-11 s INDUCTOR, CHIP 27uH L401 1-410-381-11 s INDUCTOR CHIP 10uH	0707 0708 0709 0710 0711	8-729-120-28 s 8-729-905-24 s 8-729-120-28 s	TRANSISTOR 2SA1576-S TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1576-S TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SB1121-S
L601 1-410-381-11 s INDUCTOR CHIP 10uH L701 1-408-795-21 s INDUCTOR CHIP 330uH L702 1-410-381-11 s INDUCTOR CHIP 10uH L703 1-410-381-11 s INDUCTOR CHIP 10uH	0712 0713 0714 0715	8-729-905-12	TRANSISTOR DTA144EU TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EU TRANSISTOR DTA144EU
L704 1-410-381-11 s INDUCTOR CHIP 10uH L705 1-410-381-11 s INDUCTOR CHIP 10uH PS1	Q716 Q717 Q718 Q719 Q802 Q803	8-729-120-28 s 8-729-905-12 s 8-729-120-28 s 8-729-120-28 s	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTA144EU TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1385-Z-L
PS701 <u>A</u> 1-532-679-00 s LINK, IC 0.6A  PS801 <u>A</u> 1-532-685-00 s LINK, IC 0.6A  Q1 8-729-905-18 s TRANSISTOR DTC144EU Q2 8-729-905-12 s TRANSISTOR DTA144EU	Q804 Q809 Q810 Q811 Q812	8-729-111-95 s 8-729-805-25 s 8-729-805-25 s	TRANSISTOR 2SA1385-Z-L TRANSISTOR 2SC3518-ZL TRANSISTOR 2SB1121-S TRANSISTOR 2SB1121-S TRANSISTOR 2SA1385-Z-L
Q3 8-729-905-18 s TRANSISTOR DTC144EU Q4 8-729-905-18 s TRANSISTOR DTC144EU Q6 8-729-905-18 s TRANSISTOR DTC144EU Q8 8-729-905-18 s TRANSISTOR DTC144EU Q15 8-729-905-18 s TRANSISTOR DTC144EU	Q813 Q814 Q815 Q816 Q817	8-729-101-73 s 8-729-101-73 s 8-729-101-73 s	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SD992A TRANSISTOR 2SD992A TRANSISTOR 2SD992A TRANSISTOR 2SD992A
Q16 8-729-104-43 s TRANSISTOR DIG144EU Q16 8-729-114-43 s TRANSISTOR 2SC1623-L5L6 Q18 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q19 8-729-905-12 s TRANSISTOR DTA144EU	Q818 Q819 Q901 Q902	8-729-101-73 s 8-729-101-73 s 8-729-807-33 s	TRANSISTOR 2SD992A TRANSISTOR 2SD992A TRANSISTOR 2SD992A TRANSISTOR 2SB1123-R TRANSISTOR 2SB1123-R
Q20 8-729-905-18 s TRANSISTOR DTC144EU Q201 8-729-905-18 s TRANSISTOR DTC144EU Q201 8-729-905-18 s TRANSISTOR DTC144EU Q202 8-729-905-18 s TRANSISTOR DTC144EU	Q903 Q904 Q905 Q906	8-729-807-33 s 8-729-905-12 s 8-729-905-12 s	TRANSISTOR 2SB1123-R TRANSISTOR DTA144EU TRANSISTOR DTA144EU TRANSISTOR DTC144EU
Q203 8-729-905-18 s TRANSISTOR DTC144EU Q204 8-729-905-18 s TRANSISTOR DTC144EU Q205 8-729-905-24 s TRANSISTOR 2SA1576-S Q401 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q402 8-729-905-18 s TRANSISTOR DTC144EU	Q907 Q908 Q909 Q950	8-729-120-28 s 8-729-905-61 s 8-729-905-57 s	TRANSISTOR DTC144EU TRANSISTOR DTC124EU TRANSISTOR DTA124EU TRANSISTOR FMS1FE
Q403 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q404 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q405 8-729-901-01 s TRANSISTOR DTC144EK	0951 0952 0953	8-729-905-18 s 8-729-905-18 s 8-729-905-18 s	TRANSISTOR DTC144EU TRANSISTOR DTC144EU TRANSISTOR DTC144EU
Q501 8-729-905-18 s TRANSISTOR DTC144EU Q502 8-729-905-12 s TRANSISTOR DTA144EU Q503 8-729-905-18 s TRANSISTOR DTC144EU	Q954 Q955 Q956 Q957	8-729-905-18 s 8-729-905-12 s	TRANSISTOR DTA144EU TRANSISTOR DTC144EU TRANSISTOR DTA144EU TRANSISTOR DTA144EU

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(SST-2AP BOARD)
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Ref. No. Ref. No. or Q'ty Part No. or Q'ty Part No. SP Description SP Description 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 8-729-905-18 s TRANSISTOR DTC144EU Q958 R64 R65 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-823-11 s METAL, CHIP 1.2K 5% 1/16W 1.216-823-11 s METAL, CHIP 1.2K 5% 1/16W 1.2K 5% 1/ R66 R2 R67 **R3** R69 R4 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W R5 R70 R71 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 S METAL, CHIP 47K 5% 1/16W 1-216-809-11 S METAL, CHIP 100 5% 1/16W 1-216-821-11 S METAL, CHIP 1K 5% 1/16W R72 R7 R73 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W **R74** R9 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R75 R76 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R11 R77 R12 R78 R13 R79 R14 R15 R83 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W R84 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R85 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W 1-216-840-11 s METAL, CHIP 39K 5% 1/16W 1-216-840-11 s METAL, CHIP 39K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R17 R86 R18 R87 R19 R20 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W R88 R89 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-815-11 s METAL, CHIP 330 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R21 R90 R22 R91 R24 R100 R25 R26 R101 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 S METAL, CHIP 4/N 5% 1/16W 1-216-833-11 S METAL, CHIP 10K 5% 1/16W 1-216-817-11 S METAL, CHIP 470 5% 1/16W 1-216-821-11 S METAL, CHIP 470 5% 1/16W R102 R27 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R104 R28 R106 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R29 R107 R30 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W 1-216-838-11 s METAL, CHIP 27K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W R31 R108 R109 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-249-410-11 s CARBON 270 5% 1/4W 1-249-410-11 s CARBON 270 5% 1/4W R111 R33 R112 R34 R113 R35 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R36 R114 R115 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-840-11 s METAL, CHIP 39K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-857-11 s METAL, CHIP 1M 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R37 R116 R38 R118 R39 R121 R40 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R41 R122 R123 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-857-11 s METAL, CHIP 1M 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W R42 R124 R43 R128 **R44** R130 R45 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R46 R131 R132 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W **R48** R133 R49 R134 1-216-814-11 s METAL, CHIP 270 5% 1/16W 1-216-815-11 s METAL, CHIP 330 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R50 R135 R51 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R56 R136 R137 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R139 R58 R142 R59 R143 R60 R61 R144 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R145 R62 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R146 R63 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R147

(SST-2AP BOARD)

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1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R148
                       1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                                           R223
                      1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-864-11 s METAL, CHIP 0 5% 1/16W
                                                                                                                                                                           R225
R149
R150
                                                                                                                                                                           R226
R151
                                                                                                                                                                            R227
R153
                                                                                                                                                                           R228
                      1-216-864-11 s METAL, CHIP 0 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
                                                                                                                                                                                                  1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-845-11 s METAL, CHIP 100K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R154
                                                                                                                                                                            R229
                                                                                                                                                                           R230
R157
                                                                                                                                                                            R231
R158
                                                                                                                                                                            R232
R159
                                                                                                                                                                            R233
R160
                      1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                   1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R161
                                                                                                                                                                           R234
R162
                                                                                                                                                                            R236
                                                                                                                                                                                                   1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-809-11 s METAL, CHIP 100 5% 1/16W
R163
                                                                                                                                                                            R237
R164
                                                                                                                                                                           R238
                                                                                                                                                                                                   1-216-837-11 s METAL, CHIP 22K 5% 1/16W
                                                                                                                                                                           R239
R165
                                                                                                                                                                                                   1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-845-11 s METAL, CHIP 100K 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-845-11 s METAL, CHIP 100K 5% 1/16W
R166
                       1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                            R240
                      1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                           R241
R167
R168
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R169
                                                                                                                                                                           R243
R170
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                      1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
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R171
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R172
R173
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R174
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R175
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                       1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R176
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R177
                                                                                                                                                                                                   1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
                      1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R178
                                                                                                                                                                           R252
R179
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                                                                                                                                                                                                   1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R180
                                                                                                                                                                           R254
                      1-216-864-11 s METAL, CHIP 0 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
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R181
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R182
R183
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                                                                                                                                                                           R258
R184
R185
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                                                                                                                                                                                                  1-216-864-11 s METAL, CHIP 0 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
1-216-845-11 s METAL, CHIP 100K 5% 1/16W
                      1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R186
                                                                                                                                                                           R260
R189
                                                                                                                                                                           R261
R190
                                                                                                                                                                           R262
R191
                                                                                                                                                                           R263
                                                                                                                                                                           R265
R192
                                                                                                                                                                                                   1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R193
                       1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                           R270
R194
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                                                                                                                                                                                                   1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-819-11 s METAL, CHIP 680 5% 1/16W
                       1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R195
                                                                                                                                                                           R272
R196
                                                                                                                                                                           R273
                                                                                                                                                                                                   1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R197
                                                                                                                                                                           R274
                                                                                                                                                                                                  1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-811-11 s METAL, CHIP 150 5% 1/16W 1-216-805-11 s METAL, CHIP 47 5% 1/16W
                      1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R198
                                                                                                                                                                           R275
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R199
R204
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                       1-216-809-11 s METAL, CHIP 100 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R206
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R207
                                                                                                                                                                           R279
                      1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W
                                                                                                                                                                                                   1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R208
                                                                                                                                                                            R280
R210
                                                                                                                                                                            R281
                                                                                                                                                                           R282
R212
R213
                                                                                                                                                                           R283
R214
                                                                                                                                                                           R284
                      1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                   1-216-818-11 s METAL, CHIP 560 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                                           R285
R215
```

R286

R287

R288

R216

R218

R222

1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W

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                    1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                          R410
R289
R290
                                                                                                                                                           R411
R291
                                                                                                                                                           R412
R292
                                                                                                                                                          R413
R293
                                                                                                                                                          R414
                    1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W
                                                                                                                                                                               1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R294
                                                                                                                                                          R415
                                                                                                                                                          R416
R295
R296
                                                                                                                                                          R417
R297
                                                                                                                                                          R419
R298
                                                                                                                                                          R420
                    1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
                                                                                                                                                                               1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 27K 5% 1/16W
R299
                                                                                                                                                          R421
R301
                                                                                                                                                          R422
                                                                                                                                                          R423
R302
                                                                                                                                                          R424
R305
                                                                                                                                                                                1-216-841-11 s METAL, CHIP 47K 5% 1/16W
                     1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                          R425
R307
                                                                                                                                                                               1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-216-837-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
                    1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-037-00 s METAL, CHIP 330 5% 1/10W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-260-068-11 s CARBON 2.2 5% 1/2W
                                                                                                                                                          R426
R308
                                                                                                                                                          R427
R309
R310
                                                                                                                                                          R428
                                                                                                                                                          R429
R311
                                                                                                                                                          R430
R312
R350
                     1-216-841-11 s METAL, CHIP 47K 5% 1/16W
                                                                                                                                                          R431
                                                                                                                                                                                1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W
                    1-216-841-11 S METAL, CHIP 47K 5% 1/16W
1-216-841-11 S METAL, CHIP 47K 5% 1/16W
1-216-841-11 S METAL, CHIP 47K 5% 1/16W
1-216-841-11 S METAL, CHIP 47K 5% 1/16W
                                                                                                                                                                               1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R351
                                                                                                                                                          R432
R352
                                                                                                                                                          R434
                                                                                                                                                          R435
R353
R354
                                                                                                                                                          R436
                                                                                                                                                                               1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                    1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
                                                                                                                                                          R437
R355
                                                                                                                                                          R438
R356
                     1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                                               1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                          R439
R357
R358
                                                                                                                                                          R440
                                                                                                                                                                                1-216-845-11 s METAL, CHIP 100K 5% 1/16W
R359
                     1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                          R441
                    1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                                               1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R360
                                                                                                                                                          R442
R361
                                                                                                                                                          R443
                                                                                                                                                          R444
R362
                                                                                                                                                          R445
R363
                                                                                                                                                          R446
R364
R365
                     1-216-841-11 s METAL, CHIP 47K 5% 1/16W
                                                                                                                                                          R447
                                                                                                                                                                                1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                               1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-833-11 s METAL, CHIP 1OK 5% 1/16W
1-216-831-11 s METAL, CHIP 1OK 5% 1/16W
1-216-833-11 s METAL, CHIP 6.8K 5% 1/16W
R366
                     1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                          R448
                    1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R367
                                                                                                                                                          R449
R374
                                                                                                                                                          R450
R375
                                                                                                                                                          R451
                    1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
                                                                                                                                                                               1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R376
                                                                                                                                                          R452
R377
                                                                                                                                                          R453
                                                                                                                                                                               1-216-821-11 s METAL, CHIP IK 5% 1/16W
1-216-821-11 s METAL, CHIP IK 5% 1/16W
1-216-839-11 s METAL, CHIP 33K 5% 1/16W
R378
                                                                                                                                                          R454
R379
                                                                                                                                                          R455
R380
                                                                                                                                                          R456
                                                                                                                                                          R457
                                                                                                                                                                                1-216-851-11 s METAL, CHIP 330K 5% 1/16W
R382
                     1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W
                    1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-835-11 s METAL, CHIP 15K 5% 1/16W
                                                                                                                                                                               1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W
R383
                                                                                                                                                          R458
R386
                                                                                                                                                          R459
                                                                                                                                                                               1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W
                                                                                                                                                          R460
R387
R388
                     1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                          R461
                    1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                                               1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W
R401
                                                                                                                                                          R462
R402
                                                                                                                                                          R463
                                                                                                                                                                              1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-849-11 s METAL, CHIP 220K 5% 1/16W
                    1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                                                                                                                                                          R464
R403
R404
                                                                                                                                                          R465
R405
                                                                                                                                                          R474
                   1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-831-11 s METAL, CHIP 10K 5% 1/16W 1-216-831-11 s METAL, CHIP 10K 5% 1/16W 1-216-831-11 s METAL
                                                                                                                                                                               1-216-844-11 s METAL, CHIP 82K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R406
                                                                                                                                                          R475
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R476 R477

R478

1-216-821-11 s METAL, CHIP 1K 5% 1/16W

R407

R408 R409

(SST-2AP	ROAPD)	(SST-2AP	ROADO
Ref. No.		Ref. No.	
R479 R480 R481 R482 R483	Part No. SP Description  1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R558 R559 R560 R561 R562	Part No. SP Description  1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R485 R486 R490 R493 R501	1-216-851-11 s METAL, CHIP 330K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-249-492-11 s CARBON 10K 5% 1/4W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R563 R564 R565 R566 R567	1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R502 R503 R504 R505 R506	1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R568 R569 R570 R571 R572	1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R507 R508 R509 R510 R511	1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W	R573 R574 R575 R576 R577	1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R515	1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R578 R579 R580 R581 R582	1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-818-11 s METAL, CHIP 560 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-840-11 s METAL, CHIP 39K 5% 1/16W
R522 R523	1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R583 R584 R585 R586 R587	1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-216-843-11 s METAL, CHIP 68K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-842-11 s METAL, CHIP 56K 5% 1/16W 1-216-834-11 s METAL, CHIP 12K 5% 1/16W
R527 R528	1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W		1-216-835-11 s METAL, CHIP 15K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W
R531 R533 R534	1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W	R594 R595 R597	1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W
R537 R541 R542	1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-218-733-11 s METAL, CHIP 51K 0.50% 1/16W	R603 R604 R605	1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 1OK 5% 1/16W 1-216-845-11 s METAL, CHIP 1OOK 5% 1/16W 1-216-833-11 s METAL, CHIP 1OK 5% 1/16W 1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W
R545 R546 R547	1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W 1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W	R608 R609 R610	1-216-853-11 s METAL, CHIP 470K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-847-11 s METAL, CHIP 150K 5% 1/16W 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W
R550 R551 R552	1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W 1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W 1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W 1-218-723-11 s METAL, CHIP 20K 0.50% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R613 R614 R615	1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-838-11 s METAL, CHIP 27K 5% 1/16W 1-216-851-11 s METAL, CHIP 330K 5% 1/16W 1-216-846-11 s METAL, CHIP 120K 5% 1/16W
R555 R556	1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R618 R619	1-216-820-11 s METAL, CHIP 820 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-819-11 s METAL, CHIP 680 5% 1/16W 1-216-812-11 s METAL, CHIP 180 5% 1/16W

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                                            1-216-857-11 s METAL, CHIP 1M 5% 1/16W 1-216-838-11 s METAL, CHIP 27K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-856-11 s METAL, CHIP 820K 5% 1/16W 
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R621
                                                                                                                                                                                                                                                                                                                                            R715
R622
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R623
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R624
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                                              1-216-847-11 s METAL, CHIP 150K 5% 1/16W
R625
                                                                                                                                                                                                                                                                                                                                             R718
                                                                                                                                                                                                                                                                                                                                                                                           1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W
1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W
1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W
1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W
                                            1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-840-11 s METAL, CHIP 39K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W
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R626
R627
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R628
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R629
R630
                                                                                                                                                                                                                                                                                                                                            R724
                                             1-216-845-11 s METAL, CHIP 100K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R631
                                                                                                                                                                                                                                                                                                                                             R725
                                                                                                                                                                                                                                                                                                                                                                                            1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                                                                           1-216-829-11 S METAL, CHIP 3.3K 5% 1/16W
1-216-827-11 S METAL, CHIP 3.3K 5% 1/16W
1-216-829-11 S METAL, CHIP 3.3K 5% 1/16W
1-216-829-11 S METAL, CHIP 4.7K 5% 1/16W
R632
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R633
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R634
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R635
                                                                                                                                                                                                                                                                                                                                                                                           1-216-857-11 s METAL, CHIP 1M 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-8
                                              1-216-809-11 s METAL, CHIP 100 5% 1/16W
1-216-842-11 s METAL, CHIP 56K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                             R730
R636
                                                                                                                                                                                                                                                                                                                                            R731
R732
R637
                                             1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-853-11 s METAL, CHIP 10K 5% 1/16W
1-216-839-11 s METAL, CHIP 33K 5% 1/16W
R638
                                                                                                                                                                                                                                                                                                                                             R733
R639
                                                                                                                                                                                                                                                                                                                                                                                            1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                            R734
R640
                                             1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                                                                           1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-819-11 s METAL, CHIP 680 5% 1/16W 1-216-819-11 s METAL, CHIP 680 5% 1/16W 1-216-819-11 s METAL, CHIP 680 5% 1/16W
                                                                                                                                                                                                                                                                                                                                            R735
R641
                                                                                                                                                                                                                                                                                                                                             R736
R642
                                                                                                                                                                                                                                                                                                                                            R737
R643
                                                                                                                                                                                                                                                                                                                                            R738
R645
R646
                                                                                                                                                                                                                                                                                                                                            R739
                                             1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-218-272-11 s METAL, CHIP 5.1K 5% 1/16W 1-216-853-11 s METAL, CHIP 470K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-839-11 s METAL, CHIP 10K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-839-11 s METAL, CHIP 10K 5% 1/16W 1-21
R647
                                                                                                                                                                                                                                                                                                                                             R740
                                                                                                                                                                                                                                                                                                                                                                                            1-216-839-11 s METAL, CHIP 33K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                                                                           1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                            R741
R648
                                                                                                                                                                                                                                                                                                                                            R742
R649
                                                                                                                                                                                                                                                                                                                                            R743
R650
                                              1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                            R744
                                                                                                                                                                                                                                                                                                                                                                                            1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R651
                                             1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                                                                           1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-820-11 s METAL, CHIP 820 5% 1/16W
R652
                                                                                                                                                                                                                                                                                                                                            R745
                                                                                                                                                                                                                                                                                                                                            R746
R653
                                                                                                                                                                                                                                                                                                                                                                                           1-218-269-11 s METAL, CHIP 360 5% 1/16W
1-216-813-11 s METAL, CHIP 220 5% 1/16W
1-216-814-11 s METAL, CHIP 270 5% 1/16W
                                                                                                                                                                                                                                                                                                                                             R747
R654
                                                                                                                                                                                                                                                                                                                                             R748
 R656
                                                                                                                                                                                                                                                                                                                                            R749
R657
                                             1-218-727-11 s METAL, CHIP 30K 0.50% 1/16W
1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
1-216-820-11 s METAL, CHIP 820 5% 1/16W
1-216-846-11 s METAL, CHIP 120K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                                                                           1-216-817-11 s METAL, CHIP 470 5% 1/16W
1-216-835-11 s METAL, CHIP 15K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                            R750
R658
                                                                                                                                                                                                                                                                                                                                            R751
 R659
                                                                                                                                                                                                                                                                                                                                            R752
 R660
                                                                                                                                                                                                                                                                                                                                                                                           1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-819-11 s METAL, CHIP 680 5% 1/16W
 R661
                                                                                                                                                                                                                                                                                                                                            R753
R662
                                                                                                                                                                                                                                                                                                                                            R754
                                             1-216-854-11 s METAL, CHIP 560K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                                                                           1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                            R755
 R663
                                                                                                                                                                                                                                                                                                                                            R756
R664
                                             1-216-845-11 s METAL, CHIP 22K 5% 1/16W
1-216-854-11 s METAL, CHIP 100K 5% 1/16W
1-216-854-11 s METAL, CHIP 560K 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                                                                           1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-807-11 s METAL, CHIP 68 5% 1/16W
                                                                                                                                                                                                                                                                                                                                             R757
 R665
 R668
                                                                                                                                                                                                                                                                                                                                            R758
                                                                                                                                                                                                                                                                                                                                             R759
R669
                                                                                                                                                                                                                                                                                                                                                                                           1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
 R670
                                              1-216-845-11 s METAL, CHIP 100K 5% 1/16W
                                             1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W
                                                                                                                                                                                                                                                                                                                                            R802
R671
                                                                                                                                                                                                                                                                                                                                            R803
R674
                                              1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-805-11 s METAL, CHIP 47 5% 1/16W
                                                                                                                                                                                                                                                                                                                                             R804
  R675
 R676
                                                                                                                                                                                                                                                                                                                                             R805
                                                                                                                                                                                                                                                                                                                                                                                           1-216-806-11 s METAL, CHIP 56 5% 1/16W
1-218-676-11 s METAL, CHIP 220 0.50% 1/16W
1-218-707-11 s METAL, CHIP 4.3K 0.50% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W
                                              1-216-836-11 s METAL, CHIP 18K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W
                                                                                                                                                                                                                                                                                                                                             R806
 R705
                                                                                                                                                                                                                                                                                                                                            R807
R706
                                             1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-839-11 s METAL, CHIP 33K 5% 1/16W
1-216-840-11 s METAL, CHIP 39K 5% 1/16W
R707
                                                                                                                                                                                                                                                                                                                                             R808
                                                                                                                                                                                                                                                                                                                                            R809
R708
                                                                                                                                                                                                                                                                                                                                            R810
 R709
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R811 R812

R813 R814 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W 1-218-720-11 s METAL, CHIP 15K 0.50% 1/16W 1-218-720-11 s METAL, CHIP 15K 0.50% 1/16W 1-218-751-11 s METAL, CHIP 300K 0.50% 1/16W

R710

R711 R712 1-216-814-11 s METAL, CHIP 270 5% 1/16W 1-216-814-11 s METAL, CHIP 270 5% 1/16W 1-216-812-11 s METAL, CHIP 180 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W

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(SST-2AP BOARD)
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Ref. No.
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or Q'ty Part No.
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                                                                   SP Description
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R815
                              1-218-751-11 s METAL, CHIP 300K 0.50% 1/16W
                                                                                                                                                                                                                     R924
                            1-216-843-11 s METAL, CHIP 68K 5% 1/16W
1-216-845-11 s METAL, CHIP 100K 5% 1/16W
1-216-843-11 s METAL, CHIP 68K 5% 1/16W
1-218-744-11 s METAL, CHIP 150K 0.50% 1/16W
R816
                                                                                                                                                                                                                     R925
                                                                                                                                                                                                                     R926
R817
R818
                                                                                                                                                                                                                      R927
                                                                                                                                                                                                                     R928
R819
                            1-216-838-11 s METAL, CHIP 27K 5% 1/16W 1-216-850-11 s METAL, CHIP 270K 5% 1/16W 1-216-838-11 s METAL, CHIP 27K 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1
                                                                                                                                                                                                                                                  1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W 1-216-853-11 s METAL, CHIP 470K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                                     R929
R820
                                                                                                                                                                                                                     R930
R821
                                                                                                                                                                                                                     R931
R822
                                                                                                                                                                                                                     R932
R823
                             1-216-837-11 s METAL, CHIP 22K 5% 1/16W
                                                                                                                                                                                                                     R933
R824
                                                                                                                                                                                                                                                  1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W
1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W
1-214-972-00 s METAL, CHIP 0.22 1% 1/4W
                            1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-843-11 s METAL, CHIP 68K 5% 1/16W
                                                                                                                                                                                                                     R934
R825
R826
                                                                                                                                                                                                                     R935
R827
                                                                                                                                                                                                                      R951
R828
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R829
                                                                                                                                                                                                                     R953
                                                                                                                                                                                                                                                  1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-836-11 s METAL, CHIP 18K 5% 1/16W
1-216-817-11 s METAL, CHIP 470 5% 1/16W
1-216-817-11 s METAL, CHIP 470 5% 1/16W
1-216-817-11 s METAL, CHIP 470 5% 1/16W
                                                                                                                                                                                                                     R954
R830
                              1-216-847-11 s METAL, CHIP 150K 5% 1/16W
                             1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-851-11 s METAL, CHIP 330K 5% 1/16W
                                                                                                                                                                                                                     R955
R831
                                                                                                                                                                                                                     R957
R833
                             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R834
                                                                                                                                                                                                                     R958
R835
                                                                                                                                                                                                                     R959
                            1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-849-11 s METAL, CHIP 220K 5% 1/16W
1-216-818-11 s METAL, CHIP 560 5% 1/16W
1-216-850-11 s METAL, CHIP 270K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
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                                                                                                                                                                                                                     R960
R837
                                                                                                                                                                                                                     R961
R838
                                                                                                                                                                                                                     R962
R839
RRAN
                                                                                                                                                                                                                     R963
                                                                                                                                                                                                                                            ⚠1-207-620-00 s WIREWOUND 1 10% 3W
R841
                                                                                                                                                                                                                     R964
                                                                                                                                                                                                                                                  1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                              1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R842
                                                                                                                                                                                                                     R965
 R843
                                                                                                                                                                                                                     R966
                                                                                                                                                                                                                                                  1-216-834-11 s METAL, CHIP 10K 5% 1/16W
1-216-836-11 s METAL, CHIP 18K 5% 1/16W
1-216-836-11 s METAL, CHIP 18K 5% 1/16W
1-216-836-11 s METAL, CHIP 18K 5% 1/16W
                            1-216-850-11 s METAL, CHIP 270K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-850-11 s METAL, CHIP 270K 5% 1/16W
 R844
                                                                                                                                                                                                                      R967
R845
                                                                                                                                                                                                                     R968
R846
                                                                                                                                                                                                                     R969
                                                                                                                                                                                                                                                 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-814-11 s METAL, CHIP 270 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
                            1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-850-11 s METAL, CHIP 270K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-218-296-11 s METAL, CHIP 75K 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W
                                                                                                                                                                                                                     R970
R847
 R848
                                                                                                                                                                                                                     R971
                                                                                                                                                                                                                     R1001
 R849
 R850
                                                                                                                                                                                                                     R1002
 R853
                                                                                                                                                                                                                     R1003
                            1-216-817-11 s METAL, CHIP 470 5% 1/16W
1-216-817-11 s METAL, CHIP 470 5% 1/16W
1-216-813-11 s METAL, CHIP 220 5% 1/16W
1-216-814-11 s METAL, CHIP 270 5% 1/16W
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 R854
                                                                                                                                                                                                                     R1004
                                                                                                                                                                                                                     R1005
 R855
                                                                                                                                                                                                                     R1006
 R864
                                                                                                                                                                                                                     R1008
 R901
                             1-216-814-11 s METAL, CHIP 270 5% 1/16W
                                                                                                                                                                                                                     R1009
R902
                             1-216-814-11 s METAL, CHIP 270 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W
                                                                                                                                                                                                                                                  1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
 R903
                                                                                                                                                                                                                     R1010
 R904
                                                                                                                                                                                                                     R1011
                                                                                                                                                                                                                                                 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                                     R1012
 R905
 R906
                                                                                                                                                                                                                     R1013
                                                                                                                                                                                                                     R1014
R907
 R908
                                                                                                                                                                                                                     R1015
                                                                                                                                                                                                                                                  1-216-841-11 s METAL, CHIP 47K 5% 1/16W
                              1-216-810-11 s METAL, CHIP 120 5% 1/16W
                                                                                                                                                                                                                                                  1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-841-11 s METAL, CHIP 1K 5% 1/16W
                             1-216-810-11 s METAL, CHIP 120 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
1-216-853-11 s METAL, CHIP 470K 5% 1/16W
1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W
 R909
                                                                                                                                                                                                                     R1101
 R910
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 R911
                                                                                                                                                                                                                      R1501
R912
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                                                                                                                                                                                                                                                  1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-216-834-11 s METAL, CHIP 12K 5% 1/16W
                              1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
                                                                                                                                                                                                                     R1902
 R913
                                                                                                                                                                                                                     R1903
 R916
                             1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
 R917
                                                                                                                                                                                                                                                  1-241-092-11 s RES, ADJ, CERMET 47K
 R918
                                                                                                                                                                                                                     RV2
                              1-216-833-11 s METAL, CHIP 10K 5% 1/16W
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1-238-090-11 s RES, ADJ, CERMET 10K
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 R919
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                             1-216-835-11 s METAL, CHIP 15K 5% 1/16W 1-216-838-11 s METAL, CHIP 27K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-840-11 s METAL, CHIP 39K 5% 1/16W
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1-238-802-11 s RES, ADJ METAL 10K
 R920
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 R921
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RV410

1-238-090-11 s RES, ADJ, CERMET 10K

R922 R923

or Q'ty	Part No. SP Description
RV602 RV603	1-238-090-11 s RES, ADJ, CERMET 10K 1-238-090-11 s RES, ADJ, CERMET 10K 1-241-092-11 s RES, ADJ, CERMET 47K 1-238-802-11 s RES, ADJ METAL 10K 1-238-802-11 s RES, ADJ METAL 10K
RV802	1-238-802-11 s RES, ADJ METAL 10K 1-238-090-11 s RES, ADJ, CERMET 10K 1-241-181-11 s RES, ADJ, CERMET 100K 1-241-175-11 s RES, ADJ, CERMET 220 1-238-090-11 s RES, ADJ, CERMET 10K
RV901	1-241-183-11 s RES, ADJ, CERMET 470K
RV1001	1-241-092-11 s RES, ADJ, CERMET 47K
S1	1-571-787-11 s SWITCH, PUSH
S2	1-571-275-11 s SWITCH, SLIDE
S3	1-571-275-11 s SWITCH, SLIDE
S401	1-570-598-11 s SWITCH, DIP 4-CKT
X1	1-567-870-11 s RESONATOR, CERAMIC 614KHz
X2	1-567-797-11 s RESENTOR, CERAMIC 12.0MHz
X3	1-567-870-11 s RESONATOR, CERAMIC 614KHz
X201	1-567-192-11 s RESONATOR, CERAMIC 4.00MHz
X401	1-567-865-11 s CRYSTAL, 12.00MHz
X402	1-567-192-11 s RESONATOR, CERAMIC 4.00MHz
X501	1-577-116-21 s CRYSTAL 16MHz
X502	1-567-160-21 s RESONATOR, CERAMIC 4.19MHz
X701	1-567-699-11 s CRYSTAL 5.85938MHz

### SW-466 BOARD

Ref. No. or O'ty	Part No. SP Description
1pc	1-642-870-11 o PRINTED CIRCUIT BOARD, SW-466

1-506-468-11 s CONNECTOR, 3P, MALE CN244 S1

1-516-961-00 s SWITCH, LEVER SLIDE

# SW-467P BOARD

SN-10/1 BOWLD	
Ref. No. or Q'ty	Part No. SP Description
1pc	1-642-952-13 o PRINTED CIRCUIT BOARD, SW-467
CN246	1-506-478-11 s CONNECTOR, 13P, MALE
CN247	1-506-489-11 s CONNECTOR 10P, MALE
CN248	1-506-492-11 o CONNECTOR, 13P, MALE
CN249	1-506-469-11 s CONNECTOR 4P, MALE
R1	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R2	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R3	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R4	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R5	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R6	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R7	1-216-814-11 s METAL, CHIP 270 5% 1/16W
R8	1-216-814-11 s METAL, CHIP 270 5% 1/16W
R30	1-216-815-11 s METAL, CHIP 330 5% 1/16W
RV1	1-241-918-11 s RES, VAR, CARBON 5K
RV2	1-241-918-11 s RES, VAR, CARBON 5K
RV3	1-241-918-11 s RES, VAR, CARBON 5K
RV4	1-241-918-11 s RES, VAR, CARBON 5K
RV5	1-241-856-11 s RES, VAR, CARBON 5K
RV6	1-241-856-11 s RES, VAR, CARBON 5K
S1	1-570-145-11 s SWITCH, SLIDE
S2	1-570-145-11 s SWITCH, SLIDE
S3	1-570-145-11 s SWITCH, SLIDE
S4	1-572-374-11 s SWITCH, SLIDE
S5	1-572-374-11 s SWITCH, SLIDE
S6	1-572-374-11 s SWITCH, SLIDE
S7	1-570-145-11 s SWITCH, SLIDE
S8	1-692-077-11 s SWITCH, SLIDE
S9	1-572-374-11 s SWITCH, SLIDE
S10	1-570-145-11 s SWITCH, SLIDE
S11	1-572-374-11 s SWITCH, SLIDE
S12	1-570-145-11 s SWITCH, SLIDE
S13	1-570-145-11 s SWITCH, SLIDE

## SW-540 BOARD

Ref. No. or Q'ty Part No. SP Description

1-642-871-12 o PRINTED CIRCUIT BOARD, SW-540 1pc

1-506-468-11 s CONNECTOR, 3P, MALE CN243

S1 1-516-961-00 s SWITCH, LEVER SLIDE

# SW-543 BOARD

Ref. No.

SP Description or Q'ty Part No.

1-642-872-11 o PRINTED CIRCUIT BOARD, SW-543 1pc

1-506-468-11 s CONNECTOR, 3P, MALE CN810

1-516-961-00 s SWITCH, LEVER SLIDE S1007

## TBC-27 BOARD

Ref. No. or Q'ty Part No. SP Description

01 Q 13	tare not boson peron
	A-8271-858-A o MOUNTED CIRCUIT BOARD, TBC-27 3-947-151-01 o PLATE, SHIELD, CARD 7-621-759-45 s SCREW +PSW 2.6x6 2-251-622-11 s LEVER, PC BOARD 1-623-599-11 o PRINTED CIRCUIT BOARD, DUS-194
C1	1-126-923-11 s ELECT 220uF 20% 10V
C2	1-126-923-11 s ELECT 220uF 20% 10V
C3	1-126-923-11 s ELECT 220uF 20% 10V
C4	1-126-923-11 s ELECT 220uF 20% 10V
C5	1-126-947-11 s ELECT 47uF 20% 35V
C6	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C7	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
C8	1-163-112-00 s CERAMIC, CHIP 62PF 5% 50V
C9	1-163-112-00 s CERAMIC, CHIP 62PF 5% 50V
C10	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
C11	1-135-070-00 s TANTALUM, CHIP 0.1uF 10% 35V
C12	1-126-947-11 s ELECT 47uF 20% 35V
C13	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C14	1-126-947-11 s ELECT 47uF 20% 35V
C15	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C16	1-126-947-11 s ELECT 47uF 20% 35V
C17	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C18	1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V
C19	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C20	1-126-964-11 s ELECT 10uF 20% 50V
C21	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C22	1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C24	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C25	1-126-947-11 s ELECT 47uF 20% 35V
C27	1-126-947-11 s ELECT 47uF 20% 35V
C28	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C29	1-126-947-11 s ELECT 47uF 20% 35V
C30	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
C31	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C32	1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C33	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C34	1-126-935-11 s ELECT 470uF 20% 16V
C35	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C36	1-126-947-11 s ELECT 47uF 20% 35V
C37	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C38	1-128-057-11 s ELECT 330uF 20% 6.3V
C39	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C41	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C42	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C43	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C44 C45 C50 C51 C52	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-135-216-11 s TANTALUM, CHIP 10uF 20% 10V 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V 1-126-964-11 s ELECT 10uF 20% 50V
C56 C57 C61	1-126-947-11 s ELECT 47uF 20% 35V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V
C65	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
C66	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C67	1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C68	1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V

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(TBC-27 BOARD)
                                                                                                                                             (TBC-27 BOARD)
Ref. No.
                                                                                                                                             Ref. No.
or Q'ty Part No.
                                        SP Description
                                                                                                                                             or Q'ty Part No. SP Description
                   1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
1-128-057-11 s ELECT 330uF 20% 6.3V
1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
                                                                                                                                                                1-135-092-21 s TANTALUM, CHIP 3.3uF 10% 16V 1-163-023-00 s CERAMIC, CHIP 0.015uF 5% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
                                                                                                                                            C431
C432
 C70
 C71
                                                                                                                                            C436
 C72
                                                                                                                                             C440
                   1-124-903-11 s ELECT 1uF 20% 50V
C73
                                                                                                                                             C441
 C74
                   1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                            C442
                                                                                                                                                                1-126-933-11 s ELECT 100uF 20% 16V
1-126-933-11 s ELECT 100uF 20% 16V
                   1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
C75
                                                                                                                                            C443
                                                                                                                                                                1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
C76
                                                                                                                                             C444
 C77
                                                                                                                                            C445
                   1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
 C78
                                                                                                                                             C446
C79
                   1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                                                1-164-232-11 s CERAMIC 0.01uF 10% 100V
                   1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V

1-163-038-91 s CERAMIC, CHIP 0.1uF 25V

1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V

1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                                                                                1-124-916-11 s ELECT 22uF 20% 63V
1-124-903-11 s ELECT 1uF 20% 50V
C80
                                                                                                                                            C448
 C81
                                                                                                                                            C449
                                                                                                                                                                1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V
1-126-947-11 s ELECT 47uF 20% 35V
 C82
                                                                                                                                             C450
                                                                                                                                            C451
                   1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C85
                                                                                                                                            C452
                                                                                                                                                                1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                                               1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C86
                                                                                                                                            C453
C87
                                                                                                                                            C454
C88
                                                                                                                                            C455
C89
                   1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                            C456
                   1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V 1-126-947-11 s ELECT 47uF 20% 35V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                                                                               1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
1-164-182-11 s CERAMIC CHIP 3300PF 10% 100V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
                                                                                                                                            C457
                                                                                                                                            C458
C459
C91
C92
093
                                                                                                                                            C460
                   1-126-947-11 s ELECT 47uF 20% 35V
C94
                                                                                                                                            C461
                                                                                                                                                                1-126-933-11 s ELECT 100uF 20% 16V
C95
                   1-126-935-11 s ELECT 470uF 20% 16V
                                                                                                                                                                1-126-111-11 s ELECT 3.3uF 20% 100V
                   1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-163-115-00 s CERAMIC, CHIP 82PF 5% 50V
                                                                                                                                                               1-120-111-11 S ELECT 5.5ur 20% 100V

1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V

1-163-098-00 s CERAMIC CHIP 16PF 5% 50V

1-164-232-11 s CERAMIC 0.01uF 10% 100V

1-162-638-11 s CERAMIC, CHIP 1uF 16V
C96
                                                                                                                                            C464
C97
                                                                                                                                            C465
C98
                                                                                                                                            C466
Cgg
                                                                                                                                            C467
                                                                                                                                                               1-162-638-11 s CERAMIC, CHIP 1uF 16V
1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V
1-163-127-00 s CERAMIC, CHIP 270PF 5% 50V
1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
C100
                   1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                                                            C468
C102
                                                                                                                                            C473
                   1-128-057-11 s ELECT 330uF 20% 6.3V
1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
C103
                                                                                                                                            C475
C104
                                                                                                                                            C476
C105
                                                                                                                                            C477
                  1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V
1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
C107
                                                                                                                                                                1-163-038-91 s CERAMIC, CHIP 0.1uF 25V 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
                                                                                                                                            C478
C108
                                                                                                                                            C479
C402
                                                                                                                                            C480
                                                                                                                                                                1-124-916-11 s ELECT 22uF 20% 63V
                                                                                                                                                               1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-124-916-11 s ELECT 22uF 20% 63V
C403
                                                                                                                                            C481
C404
                                                                                                                                            C482
                   1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                                                               1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
                                                                                                                                            C483
                  1-163-037-91 s CERAMIC . CHIP 0.022uF 10% 25V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                                               1-124-916-11 s ELECT 22uF 20% 63V
1-124-916-11 s ELECT 22uF 20% 63V
C407
                                                                                                                                            C484
C409
                                                                                                                                            C486
                                                                                                                                                               1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C410
                                                                                                                                            C487
C416
                                                                                                                                            C488
                                                                                                                                                               1-163-038-91 s CERAMIC, CHIP 0.1uF 25V 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V 1-124-916-11 s ELECT 22uF 20% 63V 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
C417
                   1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                            C489
                  1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
1-163-253-11 s CERAMIC, CHIP 120PF 5% 50V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
C418
                                                                                                                                            C490
C419
                                                                                                                                            C491
C420
                                                                                                                                            C492
C421
                                                                                                                                            C493
                  1-163-127-00 s CERAMIC, CHIP 270PF 5% 50V 1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                                               1-126-933-11 s ELECT 100uF 20% 16V
1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                            C494
C423
                                                                                                                                           C495
                  1-163-139-00 s CERAMIC, CHIP 820PF 5% 50V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                                               1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V
C424
                                                                                                                                           C496
C425
                                                                                                                                           C497
C426
                                                                                                                                           C498
```

C499

C500

C501 C502 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-126-933-11 s ELECT 100uF 20% 16V

C427

C428

C429

1-126-947-11 s ELECT 47uF 20% 35V 1-126-947-11 s ELECT 47uF 20% 35V 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V 1-164-232-11 s CERAMIC 0.01uF 10% 100V

(TBC-27 BOARD)	(TBC-27 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or O'ty Part No. SP Description
C503 1-164-232-11 s CERAMIC 0.01uF 10% 100V C504 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V C505 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V	C715 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C716 1-126-947-11 s ELECT 47uF 20% 35V
C506 1-126-933-11 s ELECT 100uF 20% 16V C507 1-126-933-11 s ELECT 100uF 20% 16V	CN611 1-573-782-21 o CONNECTOR, PHEC 60P, MALE CN612 1-573-782-21 o CONNECTOR, PHEC 60P, MALE
C508 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C509 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C510 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V	CV401 1-141-322-11 s CAP, VAR, TRIMMER 20PF CV402 1-141-322-11 s CAP, VAR, TRIMMER 20PF
C511 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C512 1-164-232-11 s CERAMIC 0.01uF 10% 100V	D2 8-719-800-76 s DIODE 1SS226 D3 8-719-018-78 s DIODE 02C73.9 D6 8-719-915-43 s DIODE, VARICAP FC54M
C513 1-164-232-11 s CERAMIC 0.01uF 10% 100V C514 1-126-933-11 s ELECT 100uF 20% 16V C515 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V	D401 8-719-940-45 s DIODE DWA010 D402 8-713-300-88 s DIODE 1T33C-01
C515 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C516 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C517 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V	D407 8-719-941-86 s DIODE DAN202U D408 8-719-941-86 s DIODE DAN202U D409 8-719-941-86 s DIODE DAN202U
C519 1-126-947-11 s ELECT 47uF 20% 35V C520 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C521 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V	D601 8-719-941-86 s DIODE DAN202U D602 8-719-949-46 s DIODE 1T32
C522 1-126-947-11 s ELECT 47uF 20% 35V C523 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V	FB1 1-543-775-11 s FILTER, EMI FB2 1-543-775-11 s FILTER, EMI FB3 1-543-775-11 s FILTER, EMI
C524 1-126-947-11 s ELECT 47uF 20% 35V C525 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C526 1-126-947-11 s ELECT 47uF 20% 35V	IC1 8-741-104-00 s IC BX1040 IC2 8-759-101-12 s IC UPC311G2
C527 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C528 1-126-947-11 s ELECT 47uF 20% 35V	IC3 8-752-335-47 s IC CXD1216M IC4 8-752-332-67 s IC CXD1217M IC5 8-759-239-55 s IC TC74HC123AF
C528 1-126-947-11 s ELECT 47uF 20% 35V  C529 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V  C530 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V  C532 1-164-232-11 s CERAMIC, CHIP 22PF 5% 50V  C533 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V  C534 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V	IC6 8-759-908-17 s IC TL082CPS IC7 8-759-908-17 s IC TL082CPS IC8 8-759-908-17 s IC TL082CPS
C533 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V C534 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V C535 1-164-232-11 s CERAMIC 0.01uF 10% 100V	IC8 8-759-908-17 s IC TL082CPS IC11 8-759-300-71 s IC HD14053BFP IC12 8-759-701-75 s IC NJM7805FA
C538 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V C539 1-164-232-11 s CERAMIC 0.01uF 10% 100V C540 1-164-232-11 s CERAMIC 0.01uF 10% 100V	IC14 8-759-980-27 s IC SN74ALS163BNS IC15 8-759-239-55 s IC TC74HC123AF IC16 8-759-927-46 s IC SN74HC00NS
C542 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V C543 1-164-232-11 s CERAMIC 0.01uF 10% 100V	IC17 8-759-925-74 s IC TC74HC04NS IC18 8-759-926-24 s IC SN74HC164NS
C544 1-107-077-00 s MICA 47PF 5% 50V C601 1-163-023-00 s CERAMIC, CHIP 0.015uF 5% 50V C602 1-164-345-11 s CERAMIC, CHIP 0.082uF 10% 25V	IC19 8-759-926-24 s IC SN74HC164NS IC21 8-759-908-17 s IC TL082CPS IC22 8-759-239-55 s IC TC74HC123AF
C603 1-163-986-00 s CERAMIC 0.027uF 10% 25V  C604 1-163-986-00 s CERAMIC 0.027uF 10% 25V	IC23 8-752-306-51 s IC CX23065A IC28 8-759-926-24 s IC SN74HC164NS
C605 1-163-986-00 s CERAMIC 0.027uF 10% 25V C606 1-163-989-11 s CERAMIC, CHIP 0.033uF 10% 25V C607 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V	IC29 8-759-926-24 s IC SN74HC164NS IC31 8-759-239-55 s IC TC74HC123AF IC401 8-759-701-75 s IC NJM7805FA
C608 1-124-925-11 s ELECT 2.2uF 20% 100V C609 1-163-037-91 s CERAMIC, CHIP 0.022uF 10% 25V	1C402 8-759-239-55 s IC TC74HC123AF 1C403 8-752-334-55 s IC CXD1175M
C610 1-164-232-11 s CERAMIC 0.01uF 10% 100V C611 1-126-947-11 s ELECT 47uF 20% 35V C612 1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V	IC404 8-752-334-55 s IC CXD1175M IC405 8-759-925-76 s IC SN74HC08NS IC406 8-759-987-17 s IC CXD1226Q
C613 1-124-903-11 s ELECT 1uF 20% 50V  C614 1-163-105-00 s CERAMIC, CHIP 33PF 5% 50V	IC407 8-759-072-23 s IC MB87647 IC408 8-759-701-75 s IC NJM7805FA
C615 1-163-105-00 s CERAMIC, CHIP 33PF 5% 50V C616 1-135-092-21 s TANTALUM, CHIP 3.3uF 10% 16V C701 1-126-947-11 s ELECT 47uF 20% 35V	IC409 8-759-925-85 s IC SN74HC32NS IC410 8-759-926-29 s IC SN74HC175NS IC411 8-759-927-46 s IC SN74HC00NS
C702 1-163-037-91 s CERAMIC. CHIP 0.022uF 10% 25V C703 1-162-726-11 s CERAMIC 470PF 1% 50V	IC412 8-759-009-51 s IC MC14538BF IC413 8-759-925-90 s IC SN74HC74NS
C704 1-162-777-11 s CERAMIC 0.01uF 5% 50V C705 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V C706 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V	IC414 8-759-710-86 s IC NJM2233BM IC415 8-752-340-75 s IC CXK1206AM IC416 8-752-340-75 s IC CXK1206AM

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(TBC-27 BOARD)
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Ref. No. Ref. No. or Q'ty Part No. SP Description or Q'ty Part No. SP Description 8-752-340-75 s IC CXK1206AM 8-759-926-23 s IC SN74HC163NS 8-759-987-19 s IC CXD1228Q 8-759-987-18 s IC CXD1227Q 8-752-032-96 s IC CXA1106M 1-410-369-11 s INDUCTOR CHIP 1uH 1-408-785-21 s INDUCTOR CHIP 47uH IC417 IC418 L701 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-767-21 s INDUCTOR, CHIP 1.5uH L702 TC420 TC421 1703 IC422 1704 1-408-510-11 s COIL, VAR 7.96MHz IC423 8-752-032-96 s IC CXA1106M LV3 8-759-700-43 s IC NJM4558M IC424 8-759-700-43 s IC NJM4558M 8-759-239-55 s IC TC74HC123AF 1-532-605-00 s LINK, IC 0.4A IC425 PS2 ▲1-532-605-00 s LINK, IC 0.4A IC426 IC427 8-759-925-90 s IC SN74HC74NS 01 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-759-239-55 s IC TC74HC123AF 8-759-925-90 s IC SN74HC74NS 8-759-908-17 s IC TL082CPS 8-759-926-23 s IC SN74HC163NS 8-759-925-90 s IC SN74HC74NS 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 02 03 IC428 IC429 8-729-109-41 s TRANSISTOR 2SK94-X1 IC430 Q4 8-729-209-07 s TRANSISTOR 2SC4213-B IC701 05 IC702 Q6 8-729-109-41 s TRANSISTOR 2SK94-X1 8-759-927-46 s IC SN74HC00NS 8-759-925-99 s IC SN74HC109NS 8-759-925-74 s IC TC74HC04NS 8-759-239-55 s IC TC74HC123AF 8-729-109-41 s TRANSISTOR 2SK94-X1 IC703 08 8-729-901-01 s TRANSISTOR DTC144EK 8-729-109-41 s TRANSISTOR 2SK94-X1 8-729-117-32 s TRANSISTOR 2SC4177 IC704 09 IC705 Q11 IC708 012 8-759-927-46 s IC SN74HC00NS IC709 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 013 1-408-785-21 s INDUCTOR CHIP 47uH 1-410-385-41 s INDUCTOR CHIP 22uH 014 11 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 **L2** 0401 1-410-385-41 s INDUCTOR CHIP 22uH 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-789-21 s INDUCTOR CHIP 100uH 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0402 13 0403 1.4 L5 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0404 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 1-408-785-21 s INDUCTOR CHIP 47uH 0405 L7 1-408-785-21 s INDUCTOR CHIP 47uH 0406 1-408-785-21 s INDUCTOR CHIP 47uH 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q407 L9 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH 0408 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 L10 1.11 0409 8-729-216-22 s TRANSISTOR 2SA1162 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-901-01 s TRANSISTOR DTC144EK 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH L12 Q411 Q412 L13 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH L15 Q414 L16 0415 8-729-901-01 s TRANSISTOR DTC144EK 1-408-785-21 s INDUCTOR CHIP 47uH L17 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0416 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 1-408-785-21 s INDUCTOR CHIP 47uH L18 0417 0418 L19 Q419 L401 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 L402 Q420 L403 1-408-785-21 s INDUCTOR CHIP 47uH 0421 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 L404 1-408-785-21 s INDUCTOR CHIP 47uH 0422 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 1-410-656-11 s INDUCTOR CHIP 150uH 1-408-789-21 s INDUCTOR CHIP 100uH 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0423 1405 L406 Q424 8-729-209-07 s TRANSISTOR 2SC4213-B 1-408-789-21 s INDUCTOR CHIP 100uH L407 Q425 L408 1-408-785-21 s INDUCTOR CHIP 47uH 8-729-901-01 s TRANSISTOR DTC144EK 0427 L409 1-408-789-21 s INDUCTOR CHIP 100uH Q601 8-729-901-01 s TRANSISTOR DTC144EK 1-410-377-31 s INDUCTOR, CHIP 4.7uH 1-408-785-21 s INDUCTOR CHIP 4.7uH 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH L410 Q602 8-729-901-01 s TRANSISTOR DTC144EK 8-729-216-22 s TRANSISTOR 2SA1162 8-729-901-01 s TRANSISTOR DTC144EK 0603 L411 1412 0604 L413 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0605 1-408-785-21 s INDUCTOR CHIP 47uH 1-408-785-21 s INDUCTOR CHIP 47uH Q606 8-729-216-22 s TRANSISTOR 2SA1162 L414 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 L415 Q607 1-408-789-21 s INDUCTOR CHIP 100uH 1-408-789-21 s INDUCTOR CHIP 100uH 1-408-789-21 s INDUCTOR CHIP 100uH L416 0616 8-729-209-07 s TRANSISTOR 2SC4213-B 1417 1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1418 R1 R2 L419 1-408-789-21 s INDUCTOR CHIP 100uH R3 1-408-785-21 s INDUCTOR CHIP 47uH 1-410-388-31 s INDUCTOR CHIP 39uH L421 R4 L422 R5 1-410-388-31 s INDUCTOR CHIP 39uH

(TBC-27 BOARD)

(TBC-27 BOARD)

Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
R6 R7 R8 R9 R10	1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R85 R87 R88 R89 R90	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 1OK 5% 1/10W 1-216-097-00 s METAL, CHIP 10OK 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W
R11 R12 R14 R16 R17	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-295-00 s METAL, CHIP 0 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W	R91 R92 R93 R94 R95	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-059-00 s METAL, CHIP 2.7K 5% 1/10W
R18 R19 R20 R22 R26	1-216-675-91 s METAL, CHIP 10K 0.50% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W	R96 R97 R98 R99 R100	1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-063-00 s METAL, CHIP 3.9K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R28 R31 R32 R33 R34	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-690-11 s METAL, CHIP 43K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-675-91 s METAL, CHIP 10K 0.50% 1/10W	R102 R106 R107	1-216-295-00 s METAL, CHIP 0 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W
R35 R36 R37 R39 R40	1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-117-00 s METAL, CHIP 680K 5% 1/10W	R120	1-216-025-00 s METAL, CHIP 100 5% 1/10W
R42 R43 R44 R45 R48	1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-117-00 s METAL, CHIP 680K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-117-00 s METAL, CHIP 680K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W	R123 R136 R143	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R49 R50 R52 R53 R54	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W	R404 R405	1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-047-00 s METAL, CHIP 820 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R55 R56 R57 R58 R64	1-216-673-91 s METAL, CHIP 8.2K 0.50% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-673-91 s METAL, CHIP 8.2K 0.50% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W	R408 R409 R410	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-047-00 s METAL, CHIP 820 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R65 R66 R67 R68 R69	1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W	R413 R414 R415	1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-295-00 s METAL, CHIP 0 1-216-295-00 s METAL, CHIP 0 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R70 R71 R72 R73 R74	1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W	R418 R419 R420	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R75 R77 R78 R79 R80	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-662-11 s METAL, CHIP 3K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W	R423 R424 R425	1-216-081-00 s METAL, CHIP 22K 5% 1/10W - 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R81 R82 R83 R84	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W	R428 R429	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W

Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
R431 1-216-025-00 s METAL, CHIP 100 5% 1/10W R432 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W R433 1-216-077-00 s METAL, CHIP 15K 5% 1/10W R434 1-216-085-00 s METAL, CHIP 33K 5% 1/10W R436 1-216-089-91 s METAL, CHIP 47K 5% 1/10W	R513 1-216-295-00 s METAL, CHIP 0 R514 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R516 1-216-648-11 s METAL, CHIP 750 0.5% 1/10W R517 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W R518 1-216-648-11 s METAL, CHIP 750 0.5% 1/10W
R437 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R438 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R439 1-216-025-00 s METAL, CHIP 100 5% 1/10W R440 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R441 1-216-025-00 s METAL, CHIP 100 5% 1/10W	R519 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W R520 1-216-117-00 s METAL, CHIP 680K 5% 1/10W R521 1-216-117-00 s METAL, CHIP 680K 5% 1/10W R522 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W R523 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R442 1-216-675-91 s METAL, CHIP 10K 0.50% 1/10W R443 1-216-675-91 s METAL, CHIP 10K 0.50% 1/10W R444 1-216-295-00 s METAL, CHIP 0 R447 1-216-295-00 s METAL, CHIP 0 R448 1-216-097-00 s METAL, CHIP 100K 5% 1/10W	R524 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W R525 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W R526 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R527 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R528 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R449 1-216-117-00 s METAL, CHIP 680K 5% 1/10W R450 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R451 1-216-021-00 s METAL, CHIP 68 5% 1/10W R452 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R453 1-216-019-00 s METAL, CHIP 56 5% 1/10W	R529 1-216-025-00 s METAL, CHIP 100 5% 1/10W R534 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R535 1-216-089-91 s METAL, CHIP 47K 5% 1/10W R536 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R537 1-216-089-91 s METAL, CHIP 47K 5% 1/10W
R454 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W R455 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R456 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W R457 1-216-025-00 s METAL, CHIP 100 5% 1/10W R459 1-216-085-00 s METAL, CHIP 33K 5% 1/10W	R538 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R539 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R540 1-216-025-00 s METAL, CHIP 100 5% 1/10W R541 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R542 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R460 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W R461 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R462 1-216-085-00 s METAL, CHIP 33K 5% 1/10W R463 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R464 1-216-119-00 s METAL, CHIP 820K 5% 1/10W	R543 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W R544 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W R545 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W R546 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W R547 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R465 1-216-111-00 s METAL, CHIP 390K 5% 1/10W R466 1-216-105-91 s METAL, CHIP 220K 5% 1/10W R467 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R468 1-216-119-00 s METAL, CHIP 820K 5% 1/10W R469 1-216-111-00 s METAL, CHIP 390K 5% 1/10W	R548 1-216-077-00 s METAL, CHIP 15K 5% 1/10W R549 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R550 1-216-077-00 s METAL, CHIP 15K 5% 1/10W R551 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R552 1-216-675-91 s METAL, CHIP 10K 0.50% 1/10W
R470 1-216-105-91 s METAL, CHIP 220K 5% 1/10W R471 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R472 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R473 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R474 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R553 1-216-675-91 s METAL, CHIP 10K 0.50% 1/10W R554 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R555 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R556 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R557 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
R475 1-216-121-00 s METAL, CHIP 1M 5% 1/10W R477 1-216-089-91 s METAL, CHIP 47K 5% 1/10W R478 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R487 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W R488 1-216-089-91 s METAL, CHIP 47K 5% 1/10W	R558 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R560 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R561 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R562 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R563 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
R492 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W R493 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R494 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W R495 1-216-089-91 s METAL, CHIP 47K 5% 1/10W R497 1-216-295-00 s METAL, CHIP 0	R564 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R565 1-216-025-00 s METAL, CHIP 100 5% 1/10W R566 1-216-043-00 s METAL, CHIP 560 5% 1/10W R567 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R568 1-216-634-11 s METAL, CHIP 200 0.5% 1/10W
R498 1-216-295-00 s METAL, CHIP 0 R500 1-216-295-00 s METAL, CHIP 0 R502 1-216-295-00 s METAL, CHIP 0 R504 1-216-295-00 s METAL, CHIP 0 R506 1-216-089-91 s METAL, CHIP 47K 5% 1/10W	R569 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R570 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W R571 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R573 1-216-295-00 s METAL, CHIP 0 R574 1-216-295-00 s METAL, CHIP 0
R507 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R508 1-216-295-00 s METAL, CHIP 0 R510 1-216-121-00 s METAL, CHIP 1M 5% 1/10W R511 1-216-121-00 s METAL, CHIP 1M 5% 1/10W	R575 1-216-295-00 s METAL, CHIP 0 R577 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R578 1-216-025-00 s METAL, CHIP 100 5% 1/10W R579 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

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(TBC-27 BOARD)
                                                                                                                                        (TBC-27 BOARD)
 Ref. No.
                                                                                                                                        Ref. No.
 or Q'ty Part No.
                                            SP Description
                                                                                                                                        or Q'ty Part No.
                                                                                                                                                                                  SP Description
                    1-216-295-00 s METAL, CHIP 0
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
1-216-089-91 s METAL, CHIP 47K 5% 1/10W
1-216-097-00 s METAL, CHIP 100K 5% 1/10W
1-216-089-91 s METAL, CHIP 47K 5% 1/10W
                                                                                                                                                          1-238-801-11 s RES, ADJ METAL 5K
1-238-802-11 s RES, ADJ METAL 10K
1-238-783-11 s RES, ADJ, CERMET 500
1-238-798-11 s RES, ADJ METAL 500
1-238-799-11 s RES, ADJ METAL 1K
 R580
                                                                                                                                        RV1
 R581
                                                                                                                                        RV2
 R585
                                                                                                                                        RV3
 R586
                                                                                                                                        RV401
 R587
                                                                                                                                        RV402
                   1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-295-00 s METAL, CHIP 0
                                                                                                                                                          1-238-801-11 s RES, ADJ METAL 5K
1-238-802-11 s RES, ADJ METAL 10K
 R588
                                                                                                                                        RV701
 R589
                                                                                                                                        RV702
 R590
 R591
                                                                                                                                                          1-808-438-11 s THERMISTOR
                                                                                                                                        TH1
 R592
                                                                                                                                                          1-577-294-11 s VCO, CRYSTAL 14.187500MHz
1-577-295-11 s VCO, CRYSTAL 17.734475MHz
1-579-057-11 s CRYSTAL 17.734475MHz
 R597
                    1-216-295-00 s METAL, CHIP 0
                                                                                                                                        Х2
                   1-216-295-00 s METAL, CHIP 0
1-216-295-00 s METAL, CHIP 0
1-216-089-91 s METAL, CHIP 47K 5% 1/10W
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R598
                                                                                                                                        ХЗ
 R599
                                                                                                                                                          1-579-057-11 s CRYSTAL 17.734475MHz
                                                                                                                                        X401
 R601
 R602
                   1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-218-756-11 s METAL, CHIP 150K 0.50% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W
 R603
 R604
 R605
 R606
                                                                                                                                        TR-72 BOARD
 R607
                                                                                                                                       Ref. No.
                   1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-057-91 s METAL, CHIP 2.2K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R608
                                                                                                                                       or Q'ty Part No.
                                                                                                                                                                                   SP Description
 R609
 R610
                                                                                                                                                          A-8262-577-A s SENSOR, ASSY
                                                                                                                                        1pc
 R611
 R612
                                                                                                                                                          1-124-228-11 s ELECT 22uF 20% 10V
                                                                                                                                       C1
R613
                   1-216-073-00 s METAL, CHIP 10K 5% 1/10W
                  1-216-049-00 s METAL, CHIP 10K 5% 1/10W
1-216-117-00 s METAL, CHIP 680K 5% 1/10W
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R614
R615
R616
R617
                                                                                                                                        TS-74L BOARD
                  1-216-081-00 s METAL, CHIP 22K 5% 1/10W
1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
1-216-073-00 s METAL, CHIP 10K 5% 1/10W
1-216-085-00 s METAL, CHIP 33K 5% 1/10W
1-216-085-00 s METAL, CHIP 33K 5% 1/10W
R618
R619
                                                                                                                                       Ref. No.
R620
                                                                                                                                        or Q'ty Part No.
                                                                                                                                                                                   SP Description
R621
                                                                                                                                                          A-7070-628-A o MOUNTED CIRCUIT BOARD, TS-74
R622
                                                                                                                                        1pc
                                                                                                                                                                                          (LEFT)
                  1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1-216-011-00 s METAL 27 5% 1/10W
R623
R624
                                                                                                                                        0715
                                                                                                                                                          8-729-700-11 s NJL7141E-N
R625
                  1-216-041-00 s METAL, CHIP 470 5% 1/10W
1-216-025-00 s METAL, CHIP 100 5% 1/10W
R626
R627
R628
                  1-216-049-00 s METAL, CHIP 1K 5% 1/10W
                  1-216-049-00 s METAL, CHIP 1K 5% 1/10W
1-216-295-00 s METAL, CHIP 0
1-216-295-00 s METAL, CHIP 0
1-216-117-00 s METAL, CHIP 680K 5% 1/10W
R629
R631
                                                                                                                                        TS-74R BOARD
R632
R633
                                                                                                                                       Ref. No.
                                                                                                                                        or Q'ty Part No.
                                                                                                                                                                                   SP Description
                  1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-680-11 s METAL, CHIP 16K 0.5% 1/10W 1-216-690-11 s METAL, CHIP 43K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R634
R635
                                                                                                                                                          A-7070-627-A o MOUNTED CIRCUIT BOARD, TS-74
                                                                                                                                        1pc
R701
                                                                                                                                                                                          (RIGHT)
R702
R703
                                                                                                                                        0715
                                                                                                                                                          8-729-700-11 s NJL7141E-N
                 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-295-00 s METAL, CHIP 0
R704
R705
R706
R707
                  1-216-295-00 s METAL, CHIP 0
R708
R709
                  1-216-295-00 s METAL, CHIP 0
                  1-216-025-00 s METAL, CHIP 100 5% 1/10W
1-216-025-00 s METAL, CHIP 100 5% 1/10W
R710
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R711

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(VA-111AP BOARD)
VA-111AP BOARD
Ref. No.
                                                                                                                                     or O'ty Part No.
                                                                                                                                                                               SP Description
                                          SP Description
or Q'ty Part No.
                                                                                                                                                       1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
1-163-124-00 s CERAMIC, CHIP 200PF 5% 50V
1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V
1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                  A-8271-861-A o MOUNTED CIRCUIT BOARD, VA-111AP
                                                                                                                                     C165
                  2-251-622-11 s LEVER, PC BOARD
                                                                                                                                     C166
2pcs
                                                                                                                                     C167
                  1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                     C168
C101
                  1-120-935-11 S ELECT 1004F 20% 10V

1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V

1-126-947-11 S ELECT 47uF 20% 35V

1-126-947-11 S ELECT 47uF 20% 35V

1-126-947-11 S ELECT 47uF 20% 35V
                                                                                                                                     C169
C102
C103
                                                                                                                                                       1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-126-964-11 s ELECT 10uF 20% 50V 1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                     C170
C104
                                                                                                                                     C171
C105
                                                                                                                                     C172
                  1-163-115-00 s CERAMIC, CHIP 82PF 5% 50V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                     C173
C106
                                                                                                                                     C174
C107
                  1-126-947-11 s ELECT 47uF 20% 35V
1-126-964-11 s ELECT 10uF 20% 50V
C108
                                                                                                                                                       1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-917-11 s CERAMIC, CHIP 15PF 5% 50V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
                                                                                                                                     C175
C109
                  1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                     C176
C110
                                                                                                                                     C177
                                                                                                                                     C178
                  1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
                  1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                     C179
C112
                  1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
C113
                                                                                                                                                       1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V
1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V
1-162-916-11 s CERAMIC, CHIP 12PF 5% 50V
1-126-933-11 s ELECT 100uF 20% 16V
                  1-126-964-11 s ELECT 10uF 20% 50V
1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                     C180
C114
                                                                                                                                     C181
C115
                                                                                                                                     C182
                  1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                     C183
C116
                  1-163-035-00 s CERAMIC, CHIP 0.047uF 50V

1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V

1-163-035-00 s CERAMIC, CHIP 0.047uF 50V

1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                                        1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                     C184
 C117
 C118
                                                                                                                                                       1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
1-126-154-11 s ELECT 47uF 20% 6.3V
                                                                                                                                     C185
 C121
 C122
                                                                                                                                     C186
                                                                                                                                     C187
                  1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                      C188
 C123
                  1-120-947-11 $ ELECT 470F 20% 35V

1-162-970-11 $ CERAMIC, CHIP 0.01uF 10% 25V

1-126-947-11 $ ELECT 470F 20% 35V

1-126-947-11 $ ELECT 470F 20% 35V

1-162-970-11 $ CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                                        1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                     C189
 C124
 C125
                                                                                                                                                       1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-126-933-11 s ELECT 100uF 20% 16V
 C126
                                                                                                                                     C191
 C127
                                                                                                                                     C192
                  1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
1-124-916-11 s ELECT 22uF 20% 63V
1-128-057-11 s ELECT 330uF 20% 6.3V
1-128-057-11 s ELECT 330uF 20% 6.3V
                                                                                                                                     C193
 C128
                                                                                                                                     C194
 C129
 C130
                                                                                                                                                        1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                     C195
 C131
                                                                                                                                      C196
 C132
                                                                                                                                                        1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                     C197
                                                                                                                                     C198
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
 C133
                  1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V 1-162-933-11 S ELECT 100uF 20% 16V 1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                     C199
 C134
 C135
                                                                                                                                                        1-126-947-11 s ELECT 47uF 20% 35V
1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                     C200
 C136
                                                                                                                                      C201
 C137
                                                                                                                                                        1-126-964-11 s ELECT 10uF 20% 50V
1-126-964-11 s ELECT 10uF 20% 50V
                                                                                                                                      C203
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                      C204
 C138
                                                                                                                                                        1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                     C205
 C139
 C145
                                                                                                                                                        1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                      C206
 C146
                                                                                                                                                       1-126-947-11 s ELECT 47uF 20% 35V
1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                      C207
 C147
                                                                                                                                      C208
                                                                                                                                                        1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                      C209
 C148
                                                                                                                                      C210
 C149
 C150
                                                                                                                                                       1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
1-126-947-11 s ELECT 47uF 20% 35V
1-124-916-11 s ELECT 22uF 20% 63V
                                                                                                                                     C211
 C151
                   1-163-038-91 s CERAMIC, CHIP 0.1uF 25V
                                                                                                                                      C212
 C152
                                                                                                                                      C213
                                                                                                                                      C214
 C153
                   1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
                  1-124-916-11 s ELECT 22uF 20% 63V
1-124-916-11 s ELECT 22uF 20% 63V
1-128-057-11 s ELECT 330uF 20% 6.3V
                                                                                                                                                        1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                      C215
 C154
 C155
                                                                                                                                                1-128-057-11 s ELECT 330uF 20% 6.3V
                                                                                                                                     C216
 C156
                                                                                                                                                       1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-128-057-11 s ELECT 330uF 20% 6.3V
1-126-947-11 s ELECT 47uF 20% 35V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                   1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
                                                                                                                                      C217
 C157
                                                                                                                                      C218
                                                                                                                                      C219
                   1-128-057-11 s ELECT 330uF 20% 6.3V
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                      C220
 C159
 C160
                  1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                                        1-126-933-11 s ELECT 100uF 20% 16V
                                                                                                                                      C221
 C161
                                                                                                                                                       1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
1-164-222-11 s CERAMIC 0.22uF 25V
1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                                                      C222
 C162
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C223

C224

1-162-924-11 s CERAMIC 56PF 5% 50V

C163

(VA-111AP BOARD)

C608

C610

C611

C612

C613

C614

C615

C616

C617

C618

C621

C622 C623

C624

1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-126-947-11 s ELECT 47uF 20% 35V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-163-263-91 s CERAMIC, CHIP 330PF 5% 50V

1-163-124-00 s CERAMIC, CHIP 200PF 5% 50V 1-163-124-00 s CERAMIC, CHIP 200PF 5% 50V 1-162-968-11 s CERAMIC, CHIP 0.0047uF 10% 50V 1-164-382-11 s CERAMIC, CHIP 91PF 5% 50V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V

1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V 1-162-916-11 s CERAMIC, CHIP 12PF 5% 50V

1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V

1-126-964-11 s ELECT 10uF 20% 50V

Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
C225 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V C226 1-126-947-11 s ELECT 47uF 20% 35V C227 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V C228 1-126-947-11 s ELECT 47uF 20% 35V C229 1-126-933-11 s ELECT 100uF 20% 16V	C629 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
C230 1-126-947-11 s ELECT 47uF 20% 35V C231 1-124-916-11 s ELECT 22uF 20% 63V C232 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C233 1-128-057-11 s ELECT 330uF 20% 6.3V C234 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V	C630 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C631 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C632 1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V C633 1-126-947-11 s ELECT 47uF 20% 35V C634 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
C235 1-128-057-11 s ELECT 330uF 20% 6.3V C236 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V C237 1-126-947-11 s ELECT 47uF 20% 35V C238 1-135-070-00 s TANTALUM, CHIP 0.1uF 10% 35V C239 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V	C801 1-162-915-11 s CERAMIC, CHIP 10PF 50V C802 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V C803 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V C804 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V C805 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V
C240 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V C241 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V C242 1-162-915-11 s CERAMIC, CHIP 10PF 50V C243 1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V C250 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V	C806 1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V C807 1-126-933-11 s ELECT 100uF 20% 16V C808 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V C809 1-126-933-11 s ELECT 100uF 20% 16V C810 1-126-947-11 s ELECT 47uF 20% 35V
C251	C811 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V C812 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V C813 1-126-933-11 s ELECT 100uF 20% 16V C814 1-126-933-11 s ELECT 100uF 20% 16V C815 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
C258	C816 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V C817 1-126-933-11 s ELECT 100uF 20% 16V C818 1-126-933-11 s ELECT 100uF 20% 16V C819 1-126-933-11 s ELECT 100uF 20% 16V C820 1-162-924-11 s CERAMIC 56PF 5% 50V
C263 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V C264 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V C266 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C267 1-126-933-11 s ELECT 100uF 20% 16V C268 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V	C821 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V C822 1-126-947-11 s ELECT 47uF 20% 35V C823 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V C824 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V C825 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
C269 1-162-915-11 s CERAMIC, CHIP 10PF 50V C270 1-162-925-11 s CERAMIC, CHIP 68PF 5% 50V C271 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V C301 1-164-156-11 s CERAMIC, CHIP 0.1uF 25V C303 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V	C826 1-164-160-11 s CERAMIC, CHIP 20PF 5% 50V C827 1-164-218-11 s CERAMIC, CHIP 180PF 50V C828 1-126-947-11 s ELECT 47uF 20% 35V C829 1-126-947-11 s ELECT 47uF 20% 35V C830 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
C600 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V C601 1-126-933-11 s ELECT 100uF 20% 16V C602 1-124-903-11 s ELECT 1uF 20% 50V C603 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V C606 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V	C831 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V C832 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V C833 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V C834 1-162-915-11 s CERAMIC, CHIP 10PF 50V C835 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V

C836

C837

C838

C839

C840

C841

C844

C845

C846

C847

C848

C849

C850

C851

(VA-111AP BOARD)

1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V

1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V

1-126-933-11 s ELECT 100uF 20% 16V 1-126-933-11 s ELECT 100uF 20% 16V

1-162-924-11 s CERAMIC 56PF 5% 50V

1-126-947-11 s ELECT 47uF 20% 35V

1-126-947-11 s ELECT 47uF 20% 35V

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(VA-111AP BOARD)
(VA-111AP BOARD)
Ref. No.
                                                                                                       or O'ty Part No.
                                                                                                                                        SP Description
or Q'ty Part No.
                                SP Description
                                                                                                                     8-752-015-81 s IC CX20158
8-759-300-71 s IC HD14053BFP
8-752-015-81 s IC CX20158
8-759-201-47 s IC TA7357AP
             1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-162-924-11 s CERAMIC 56PF 5% 50V 1-162-924-11 s CERAMIC 56PF 5% 50V
                                                                                                       IC112
C852
                                                                                                       IC113
C853
C854
                                                                                                       IC114
                                                                                                       IC115
C855
                                                                                                                     8-759-710-86 s IC NJM2233BM
              1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
                                                                                                       IC116
C856
                                                                                                                     8-759-927-46 s IC SN74HC00NS
8-741-126-20 s IC BX1262
              1-126-947-11 s ELECT 47uF 20% 35V 1-126-947-11 s ELECT 47uF 20% 35V
                                                                                                       TC117
C857
                                                                                                       IC600
C859
             1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-164-227-11 s CERAMIC, CHIP 0.02?uF 10% 25V 1-162-922-11 s CERAMIC, CHIP 39PF 5% 50V
                                                                                                                     8-759-710-86 s IC NJM2233BM
8-759-009-51 s IC MC14538BF
                                                                                                       IC601
C860
                                                                                                       IC602
C861
                                                                                                                     8-759-710-86 s IC NJM2233BM
                                                                                                        IC603
C862
              1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V
                                                                                                                      8-759-014-29 s IC MC34184M
                                                                                                       TC801
C863
                                                                                                                     8-759-908-17 s IC TL082CPS
8-759-947-82 s IC TL610CPS
8-752-015-81 s IC CX20158
8-759-239-55 s IC TC74HC123AF
              1-102-921-11 S CERAMIC, CHIP 33PF 5% 50V

1-126-947-11 S ELECT 47uF 20% 35V

1-164-227-11 S CERAMIC, CHIP 0.022uF 10% 25V

1-162-970-11 S CERAMIC, CHIP 0.01uF 10% 25V

1-162-919-11 S CERAMIC, CHIP 22PF 5% 50V
                                                                                                       IC802
C864
                                                                                                       IC803
C865
                                                                                                       TC804
C866
C951
                                                                                                       IC805
              1-164-217-11 s CERAMIC, CHIP 150PF 5% 50V
1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V
1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V
1-162-907-11 s CERAMIC, CHIP 2PF 50V
                                                                                                                      8-759-937-61 s IC S-81230AG
                                                                                                       IC806
C952
                                                                                                                     8-759-941-79 s IC S-80230AG
8-759-925-74 s IC TC74HC04NS
8-759-030-55 s IC MC1496M
                                                                                                        IC807
C953
                                                                                                        IC808
C955
                                                                                                        IC809
C956
                                                                                                                      8-759-925-97 s IC SN74HC86ANS
                                                                                                       IC951
              1-573-782-21 o CONNECTOR, PHEC 60P, MALE 1-573-782-21 o CONNECTOR, PHEC 60P, MALE
CN609
                                                                                                                     1-408-785-21 s INDUCTOR CHIP 47uH 1-410-087-31 s INDUCTOR 10mH
                                                                                                       1101
CN610
                                                                                                       L102
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
1-408-785-21 s INDUCTOR CHIP 47uH
              1-141-322-11 s CAP, VAR, TRIMMER 20PF 1-141-322-11 s CAP, VAR, TRIMMER 20PF
                                                                                                       L103
CV101
                                                                                                       L104
CV601
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                       L107
              8-719-104-10 s DIODE 1SS99
D101
              8-719-104-10 s DIODE 1SS99
                                                                                                       L108
                                                                                                                      1-410-656-11 s INDUCTOR CHIP 150uH
D102
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                       L109
D103
              8-719-104-10 s DIODE 1SS99
              8-719-104-10 s DIODE 1SS99
                                                                                                       1110
D104
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
              8-719-104-10 s DIODE 1SS99
                                                                                                       L111
D105
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                       L112
D106
              8-719-104-10 s DIODE 1SS99
              8-719-941-86 s DIODE DAN202U
8-719-941-86 s DIODE DAN202U
                                                                                                       L113
                                                                                                                      1-410-388-31 s INDUCTOR CHIP 39uH
D107
                                                                                                                     1-410-391-11 s INDUCTOR, CHIP 68uH
1-410-387-11 s INDUCTOR, CHIP 33uH
1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                       L114
D108
              8-719-911-19 s DIODE 1SS119
                                                                                                       L115
D110
                                                                                                       L118
D601
              8-719-941-86 s DIODE DAN202U
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                       L119
              8-719-911-19 s DIODE 1SS119
8-719-941-86 s DIODE DAN202U
8-719-800-76 s DIODE 1SS226
D602
                                                                                                                     1-410-390-11 s INDUCTOR, CHIP 56uH 1-410-087-31 s INDUCTOR 10mH
                                                                                                       L120
D801
                                                                                                       L122
0802
                                                                                                       L123
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
              8-719-941-86 s DIODE DAN202U
D803
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                       L124
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
              1-415-402-11 s DELAY LINE 300nS
1-415-402-11 s DELAY LINE 300nS
                                                                                                       L125
DL101
DL103
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                       1126
                                                                                                                     1-410-393-11 s INDUCTOR CHIP 100uH
1-408-785-21 s INDUCTOR CHIP 47uH
 FL101
               1-235-474-11 s FILTER, LOW-PASS 2MHz
                                                                                                       L127
              1-236-040-11 s FILTER, LOW-PASS 2.5MHz
1-235-474-11 s FILTER, LOW-PASS 2MHz
1-409-410-11 s FILTER, TRAP 4.4MHz
1-235-759-11 s FILTER, LOW-PASS 5MHz
                                                                                                       L128
FL102
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                        L129
FL103
                                                                                                                      1-410-392-11 s INDUCTOR, CHIP 82uH
FL104
                                                                                                        L130
 FL801
                                                                                                                     1-412-282-41 s INDUCTOR, CHIP 470uH
1-408-785-21 s INDUCTOR CHIP 47uH
1-408-785-21 s INDUCTOR CHIP 47uH
1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                       L131
FL802
               1-235-161-00 s FILTER, BANDPASS 3.58MHz
                                                                                                       L132
                                                                                                       L133
              8-759-710-86 s IC NJM2233BM
                                                                                                       L136
 IC101
              8-759-925-60 s IC BA401
8-759-925-60 s IC BA401
8-752-015-81 s IC CX20158
8-759-710-86 s IC NJM2233BM
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
 IC102
                                                                                                        L140
 IC103
                                                                                                                      1-410-381-11 s INDUCTOR CHIP 10uH
                                                                                                       L141
 IC104
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                       L142
 IC105
                                                                                                                      1-408-785-21 S INDUCTOR CHIP 47uH
1-410-381-11 S INDUCTOR CHIP 10uH
                                                                                                       L201
 TC106
               8-759-925-60 s IC BA401
                                                                                                        L202
              8-752-015-81 s IC CX20158
8-752-015-81 s IC CX20158
                                                                                                        L506
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
 IC107
 IC108
              8-759-111-69 s IC UPC1037HA
8-759-710-86 s IC NJM2233BM
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
                                                                                                        L600
 IC109
                                                                                                       L601
                                                                                                                      1-408-785-21 s INDUCTOR CHIP 47uH
 IC110
                                                                                                                      1-410-381-11 s INDUCTOR CHIP 10uH
1-410-392-11 s INDUCTOR, CHIP 82uH
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1602

1603

8-759-925-60 s IC BA401

IC111

(VA-111AP BOARD)	(VA-111AP BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
L604 1-412-282-41 s INDUCTOR, CHIP 470uH L605 1-412-282-41 s INDUCTOR, CHIP 470uH L606 1-408-785-21 s INDUCTOR CHIP 47uH L801 1-410-381-11 s INDUCTOR CHIP 10uH L802 1-408-785-21 s INDUCTOR CHIP 47uH	Q135         8-729-905-24 s         TRANSISTOR 2SA1576-S           Q136         8-729-120-28 s         TRANSISTOR 2SC1623-L5L6           Q138         8-729-905-24 s         TRANSISTOR 2SA1576-S           Q139         8-729-120-28 s         TRANSISTOR 2SC1623-L5L6           Q141         8-729-120-28 s         TRANSISTOR 2SC1623-L5L6
L803 1-408-785-21 s INDUCTOR CHIP 47uH L804 1-408-785-21 s INDUCTOR CHIP 47uH L805 1-408-785-21 s INDUCTOR CHIP 47uH L806 1-410-380-31 s INDUCTOR, CHIP 8.2uH L807 1-408-785-21 s INDUCTOR CHIP 47uH	0142         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6           0143         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6           0144         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6           0145         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6           0146         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6
L808 1-410-380-31 s INDUCTOR, CHIP 8.2uH L809 1-408-785-21 s INDUCTOR CHIP 47uH L810 1-408-785-21 s INDUCTOR CHIP 47uH L811 1-408-785-21 s INDUCTOR CHIP 47uH L812 1-410-391-11 s INDUCTOR, CHIP 68uH	Q147         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6           Q148         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6           Q149         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6           Q151         8-729-905-24 s         TRANSISTOR         2SA1576-S           Q152         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6
L813 1-410-386-11 s INDUCTOR, CHIP 27uH L814 1-410-392-11 s INDUCTOR, CHIP 82uH L815 1-408-785-21 s INDUCTOR CHIP 47uH L816 1-408-785-21 s INDUCTOR CHIP 47uH L817 1-410-381-11 s INDUCTOR CHIP 10uH	Q153         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6           Q154         8-729-905-24 s         TRANSISTOR         2SA1576-S           Q155         8-729-905-24 s         TRANSISTOR         2SA1576-S           Q156         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6           Q157         8-729-120-28 s         TRANSISTOR         2SC1623-L5L6
L818 1-410-393-11 s INDUCTOR CHIP 100uH L951 1-408-785-21 s INDUCTOR CHIP 47uH L952 1-410-385-41 s INDUCTOR CHIP 22uH L953 1-410-387-11 s INDUCTOR, CHIP 33uH	Q158         8-729-905-24 s         TRANSISTOR 2SA1576-S           Q159         8-729-120-28 s         TRANSISTOR 2SC1623-L5L6           Q160         8-729-120-28 s         TRANSISTOR 2SC1623-L5L6           Q161         8-729-120-28 s         TRANSISTOR 2SC1623-L5L6           Q162         8-729-120-28 s         TRANSISTOR 2SC1623-L5L6
LV600 1-408-514-11 s COIL (VARIABLE) LV601 1-408-514-11 s COIL (VARIABLE)  PS801 A1-532-605-00 s LINK, IC 0.4A  Q101 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q163 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q164 8-729-905-18 s TRANSISTOR DTC144EU Q165 8-729-905-18 s TRANSISTOR DTC144EU Q170 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q171 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
Q102 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q103 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q104 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q105 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q106 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q172 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q173 8-729-905-18 s TRANSISTOR DTC144EU Q174 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q175 8-729-119-77 s TRANSISTOR 2SC1623-L5L6 Q176 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
Q107 8-729-905-18 s TRANSISTOR DTC144EU Q111 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q112 8-729-905-18 s TRANSISTOR DTC144EU Q113 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q177 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q178 8-729-905-18 s TRANSISTOR DTC144EU Q179 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q180 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
Q114 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q115 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q116 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q117 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q118 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q201 8-729-120-28 s TRANSISTOR 2SC1623-L5L6  Q202 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q203 8-729-905-24 s TRANSISTOR 2SC1623-L5L6 Q204 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q600 8-729-905-24 s TRANSISTOR 2SC1623-L5L6
0119 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0120 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0121 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0122 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0123 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q601     8-729-120-28 s     TRANSISTOR     2SC1623-L5L6       Q602     8-729-120-28 s     TRANSISTOR     2SC1623-L5L6       Q603     8-729-120-28 s     TRANSISTOR     2SC1623-L5L6       Q604     8-729-120-28 s     TRANSISTOR     2SC1623-L5L6       Q604     8-729-120-28 s     TRANSISTOR     2SC1623-L5L6
Q124 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q125 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q126 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q127 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q129 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	Q605 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q606 8-729-905-18 s TRANSISTOR DTC144EU Q607 8-729-905-18 s TRANSISTOR DTC144EU Q608 8-729-905-18 s TRANSISTOR DTC144EU Q609 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
0130 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0131 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 0132 8-729-905-24 s TRANSISTOR 2SA1576-S 0133 8-729-905-24 s TRANSISTOR 2SA1576-S 0134 8-729-905-24 s TRANSISTOR 2SA1576-S	Q610         8-729-905-24 s         TRANSISTOR 2SA1576-S           Q611         8-729-905-24 s         TRANSISTOR 2SA1576-S           Q612         8-729-120-28 s         TRANSISTOR 2SC1623-L5L6           Q613         8-729-905-24 s         TRANSISTOR 2SA1576-S           Q801         8-729-120-28 s         TRANSISTOR 2SC1623-L5L6           Q802         8-729-201-27 s         TRANSISTOR 2SC2715-Y

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(VA-111AP BOARD)
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# (VA-111AP BOARD)

Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
Q803 8-729-201-27 s TRANSISTOR 2SC2715-Y Q804 8-729-201-27 s TRANSISTOR 2SC2715-Y Q805 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q806 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q807 8-729-201-27 s TRANSISTOR 2SC2715-Y	R144 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R145 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R146 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W R147 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R148 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
Q808 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q809 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q810 8-729-122-63 s TRANSISTOR 2SA1226 Q811 8-729-201-27 s TRANSISTOR 2SC2715-Y Q812 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R149 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R150 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R151 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R152 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R153 1-216-809-11 s METAL, CHIP 10O 5% 1/16W
Q813 8-729-201-27 s TRANSISTOR 2SC2715-Y Q814 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q815 8-729-201-27 s TRANSISTOR 2SC2715-Y Q816 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q817 8-729-216-22 s TRANSISTOR 2SA1162	R155 1-218-285-11 s METAL, CHIP 75 5% 1/16W R156 1-216-809-11 s METAL, CHIP 100 5% 1/16W R158 1-216-834-11 s METAL, CHIP 12K 5% 1/16W R159 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W R160 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
Q818 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q819 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q951 8-729-216-22 s TRANSISTOR 2SA1162 Q952 8-729-120-28 s TRANSISTOR 2SC1623-L5L6 Q953 8-729-120-28 s TRANSISTOR 2SC1623-L5L6	R161 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R164 1-216-809-11 s METAL, CHIP 100 5% 1/16W R167 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R168 1-218-668-11 s METAL, CHIP 100 0.50% 1/16W R169 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W
R101 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R103 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R104 1-216-817-11 s METAL, CHIP 470 5% 1/16W R105 1-218-313-11 s METAL, CHIP 560 1% 1/16W R107 1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R170 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W R171 1-216-817-11 s METAL, CHIP 470 5% 1/16W R172 1-216-865-11 s METAL, CHIP 3K 5% 1/16W R173 1-216-815-11 s METAL, CHIP 330 5% 1/16W R174 1-218-688-11 s METAL, CHIP 680 0.50% 1/16W
R108 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R109 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R110 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R111 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W R112 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R175 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R176 1-216-833-11 s METAL, CHIP 1OK 5% 1/16W R177 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W R178 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R179 1-216-833-11 s METAL, CHIP 1OK 5% 1/16W
R113 1-216-802-11 s METAL, CHIP 27 5% 1/16W R114 1-218-313-11 s METAL, CHIP 560 1% 1/16W R115 1-216-834-11 s METAL, CHIP 12K 5% 1/16W R116 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W R117 1-216-817-11 s METAL, CHIP 470 5% 1/16W	R182 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R183 1-216-809-11 s METAL, CHIP 100 5% 1/16W R185 1-218-285-11 s METAL, CHIP 75 5% 1/16W
R118 1-216-817-11 s METAL, CHIP 470 5% 1/16W R119 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R120 1-218-313-11 s METAL, CHIP 560 1% 1/16W R121 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R122 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R186 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R187 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R188 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R189 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R190 1-216-809-11 s METAL, CHIP 10O 5% 1/16W
R123 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R124 1-218-828-11 s METAL, CHIP 16O 0.50% 1/16W R125 1-218-680-11 s METAL, CHIP 33O 0.50% 1/16W R128 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W R129 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R192 1-218-285-11 s METAL, CHIP 75 5% 1/16W R193 1-216-835-11 s METAL, CHIP 15K 5% 1/16W R194 1-216-835-11 s METAL, CHIP 15K 5% 1/16W R195 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R196 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W
R130 1-218-271-11 s METAL, CHIP 2K 5% 1/16W R131 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W R132 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R133 1-218-698-11 s METAL, CHIP 1.8K 0.50% 1/16W R134 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R198 1-216-820-11 s METAL, CHIP 820 5% 1/16W R199 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R200 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R201 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R202 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R135 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R136 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R137 1-216-817-11 s METAL, CHIP 470 5% 1/16W R138 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R139 1-218-720-11 s METAL, CHIP 15K 0.50% 1/16W	R203 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R204 1-216-817-11 s METAL, CHIP 470 5% 1/16W R205 1-216-805-11 s METAL, CHIP 47 5% 1/16W R206 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R207 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R140 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W R141 1-218-708-11 s METAL, CHIP 4.7K 0.50% 1/16W R142 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R143 1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R208 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R209 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R210 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R211 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W

#### 'RA-4P BOARD)

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f. No.
Q'ty Part No.
                                           SP Description
                8-719-400-18 s DIODE MA152WK
                 8-752-033-00 s IC CXA1234AR
                8-759-230-99 s IC TC74HC4053AF
8-759-230-99 s IC TC74HC4053AF
8-759-701-75 s IC NJM7805FA
:3
4
                 8-759-700-65 s IC NJM79L05A
                 1-410-478-11 s INDUCTOR 47uH
1-408-423-00 s INDUCTOR 150uH
                 1-408-785-21 s INDUCTOR CHIP 47uH
                 1-410-376-21 s INDUCTOR, CHIP 3.9uH
                 1-408-785-21 s INDUCTOR CHIP 47uH
                 1-410-381-11 s INDUCTOR CHIP 10uH
                 1-408-785-21 s INDUCTOR CHIP 47uH
1-408-785-21 s INDUCTOR CHIP 47uH
                 1-408-777-00 s INDUCTOR, CHIP 10uH
1-408-777-00 s INDUCTOR, CHIP 10uH
:0
                 8-729-905-18 s TRANSISTOR DTC144EU
                 8-729-216-22 s TRANSISTOR 2SA1162
                 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
8-729-103-19 s TRANSISTOR 2SA1206-K1
                 8-729-216-22 s TRANSISTOR 2SA1162
                 8-729-905-18 s TRANSISTOR DTC144EU
8-729-905-18 s TRANSISTOR DTC144EU
                 8-729-216-22 s TRANSISTOR 2SA1162
                 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W
                 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W
                 1-210-024-11 S METAL, CHIP 1.0K 5% 1/10W

1-218-698-11 S METAL, CHIP 1.8K 0.50% 1/16W

1-218-698-11 S METAL, CHIP 1.8K 0.50% 1/16W

1-218-720-11 S METAL, CHIP 15K 0.50% 1/16W

1-216-838-11 S METAL, CHIP 27K 5% 1/16W
LO
                 1-218-720-11 s METAL, CHIP 15K 0.50% 1/16W 1-218-725-11 s METAL, CHIP 24K 0.50% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W
12
13
14
19
                 1-216-817-11 s METAL, CHIP 470 5% 1/16W
1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W
1-216-795-11 s METAL, CHIP 6.8K 0.50% 1/16W
1-216-797-11 s METAL, CHIP 10 5% 1/16W
1-216-818-11 s METAL, CHIP 560 5% 1/16W
20
21
22
23
24
                 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
1-216-841-11 s METAL, CHIP 47K 5% 1/16W
25
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29
                 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
30
                 1-216-797-11 s METAL, CHIP 10 5% 1/16W
1-216-797-11 s METAL, CHIP 10 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-843-11 s METAL, CHIP 68K 5% 1/16W
32
33
34
35
                 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W
1-216-864-11 s METAL, CHIP 0 5% 1/16W
1-218-744-11 s METAL, CHIP 150K 0.50% 1/16W
1-218-744-11 s METAL, CHIP 150K 0.50% 1/16W
36
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### (VRA-4P BOARD)

Ref. No. or Q'ty	Part No. SP Description
R41 R42 R43 R44 R45	1-218-700-11 s METAL, CHIP 2.2K 0.50% 1/16W 1-218-700-11 s METAL, CHIP 2.2K 0.50% 1/16W 1-216-801-11 s METAL, CHIP 22 5% 1/16W 1-216-789-11 s METAL, CHIP 2.2 5% 1/16W 1-216-789-11 s METAL, CHIP 2.2 5% 1/16W
RV1 RV2 RV3	1-238-783-11 s RES, ADJ, CERMET 500 1-238-786-11 s RES, ADJ METAL 5K 1-238-786-11 s RES, ADJ METAL 5K

FRAME	HARNESS
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc A-8260-641-A s DRUM ASSY (DGH-98A-R)	1pc 1-630-923-11 o FLEXIBLE BOARD, FP-206 (MD ASSY to RS-31/CN304)
1pc A-8260-642-A s DRUM ASSY, UPPER ROTARY (DGH-98-R) 1pc A-7070-624-A o MOUNTED CIRCUIT BOARD,	5pcs 1-696-147-11 s FLEXIBLE CARD WIRE 26P (SST-2AP/CN311 THRU CN315)
FP-84 FLEXIBLE (CN-551P/CN345 to MD ASSY/W801)	to (MB-356AP/CN130 THRU CN314)
1pc A-7070-625-A o MOUNTED CIRCUIT BOARD, FP-122 FLEXIBLE (CN-551P/CN344 to MD ASSY/W901)	1pc 1-949-739-11 o HARNESS (KY-DD1) (KY-217/CN703 to DD-12/CN752)
1pc <u>M</u> 1-413-820-11 s SWITCHING REGULATOR (SOPS-1031)	1pc 1-949-740-11 o HARNESS (KY-DD2) (KY-217/CN704 to DD-12/CN751)
1pc 1-506-485-11 s CONNECTOR (HOOK TYPE) (to LM-22 BOARD)	1pc 1-949-741-11 o HARNESS (AU) (AU-156AP/CN221,CN222)
1pc 1-506-485-11 s CONNECTOR (HOOK TYPE) (to MS-36 BOARD)	to (AA-57/CN205,CN208)
1pc <u>↑</u> 1-576-228-11 s FUSE, H.B.C 2A 250V	1pc 1-949-742-11 o HARNESS (MB) (MB-356AP/CN119,CN121,CN122, CN123,CN329)
1pc 1-535-535-11 s TERMINAL, SHAFT GROUND	to (VR-122/CN245, VR-130/CN242,
1pc 1-543-830-11 o CLAMP, SLEEVE FERRITE  CN3001	MT-57A/CN802 & SW-466/CN244)  1pc 1-949-743-11 o HARNESS (SW467)
CS1001 1-806-682-00 s SENSOR, CONDENSATION	(MB-356AP/CN124,CN135,CN136) to
J1002 1-507-854-00 s JACK, HEADPHONES	(SW-467P/CN246 THRU CN249 & SST-2AP/CN307
M1002 8-835-304-11 s MOTOR, DC (U-11B) "REEL"	1pc 1-949-748-11 o HARNESS (SST) (SST-2AP/CN322 THRU CN328)
M1003 8-835-364-01 s MOTOR, DC (BHF-2802B) "CAPSTAN"	to (CN-551P/CN335 THRU CN340 & CN348)
M1004 X-3711-936-1 s MOTOR ASSY, FL (DNR-6603A) "CASSETTE COMPARTMENT"	1pc 1-949-749-12 o HARNESS (AA) (AA-57/CN201 THRU CN204,CN206
M1005 8-835-138-01 s MOTOR, DC (DNR-5301B) "CONTROL"	CN206,CN207,CN209,CN210)
M1006 A-7040-065-A s MOTOR ASSY, L (DNR-6602A) "LOADING"	(CP-177/CN211 THRU CN218)
ME1001 1-520-506-11 s METER AUDIO LEVEL CH-1	1pc 1-949-751-11 o HARNESS (RM101) (RM-101/CN241 to MB-356P/CN113)
ME1002 1-520-506-11 s METER AUDIO LEVEL CH-2 PM1001 1-454-377-21 s SOLENOID "BRAKE"	1pc 1-949-752-11 o HARNESS (AU-MON) (MB-356P/CN1145 to CP-176/CN231)
PM1002 1-454-445-21 s SOLENOID "CLEANING"	1pc 1-949-753-11 o HARNESS (DUB)
S1001 <u>↑</u> 1-570-117-41 s SWITCH, ROCKER "POWER"	(MB-356P/CN115 to CP-176/CN232)
S1002 1-570-407-11 s SWITCH SLIDE " CASSETTE IN"	1pc 1-949-755-12 o HARNESS (MONITOR) (MB-356P/CN117 to CP-176/CN234)
S1003 1-553-226-00 s SWITCH LEAF "CASSETTE DOWN"	1pc 1-949-756-12 o HARNESS (S-V) (MB-356P/CN118 to CP-176/CN235)
S1010 1-572-298-21 s SWITCH, PUSH "REC PROOF/MPHG/ME/MP"	1pc 1-949-757-11 o HARNESS (RM-122) (RM-122/CN252 to SST-2AP/CN316)
	1pc 1-949-758-11 o HARNESS (VRA-SI) (MB-356P/CN128 to VRA-4P/CN501)
	1pc 1-949-759-11 o HARNESS (VRA-DC) (MB-356P/CN129 to VRA-4P/CN503)
	1pc 1-949-760-11 o HARNESS (PRE) (MB-356P/CN127 to PRE-10P/CN511)

HARNES	S)	(HARNESS)
ef. No r Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
рс	1-949-761-11 o HARNESS (SDW348) (MB-356P/CN125 to SW-543/CN810)	1-562-149-11 o HOUSING 4P 1-563-088-11 o CONTACT, FEMALE AWG 24-30
рс	1-949-762-11 o HARNESS (KY-SST) (KY-217/CN701 to SST-2AP/CN329 )	
рс	1-949-763-11 o HARNESS (TR) (CN-551P/CN346 to TR-72/CN351)	1-563-088-11 o CONTACT, FEMALE AWG 24-30  CN347 (to CN-551P)
N126	(to MB-356AP) 1-562-256-00 o HOUSING 6P 1-562-260-11 o CONTACT, IL-S FEMALE AWG 24-28	1-562-147-11 o HOUSING 2P 1-563-088-11 o CONTACT, FEMALE AWG 24-30 CN702 (to KY-217)
N137	(to MB-356P) 1-562-257-00 o HOUSING 8P	1-562-151-00 o HOUSING 6P 1-564-026-00 s CONTACT, FEMALE AWG24-30
N242	1-562-260-11 o CONTACT, IL-S FEMALE AWG 24-28 (to HP-52)	CN706 (to KY-217) 1-562-152-11 o HOUSING 7P 1-564-026-00 s CONTACT, FEMALE AWG24-30
N243	1-506-482-11 s HOUSING 3P 1-563-088-11 o CONTACT, FEMALE AWG24-30 (to SW-540)	CN766 (to LP-52) 1-562-152-11 o HOUSING 7P
11243	1-562-148-11 o HOUSING 3P 1-563-088-11 o CONTACT, FEMALE AWG24-30	1-564-026-00 s CONTACT, FEMALE AWG24-30 CN901 (to SWITCHING REGULATOR) 1-562-259-00 o HOUSING 12P
N261	(to DC-57P) 1-562-259-00 o HOUSING 12P 1-562-260-11 o CONTACT, IL-S FELAME AWG24-28	1-562-260-11 o CONTACT, IL-S FEMALE AWG24-28 CN902 (to SWITCHING REGULATOR)
N262	(to DC-57P) 1-562-254-00 o HOUSING 4P	$\Lambda$ 1-562-285-11 o HOUSING 4P $\Lambda$ 1-562-210-11 o CONTACT, FEMALE AWG18-22
N263	1-562-260-11 o CONTACT, IL-S FELAME AWG24-28 (to DC-57P)	CN911 (to AC-121AP) ⚠1-562-285-00 o HOUSING 4P ⚠1-562-210-11 o CONTACT, FEMALE AWG18-22
N264	1-562-256-00 o HOUSING 6P 1-562-260-11 o CONTACT, IL-S FEMALE AWG24-28	CN912 (to AC-121AP)  A 1-562-211-11 o HOUSING 3P
11204	(to DC-57P) 1-562-257-00 o HOUSING 8P 1-562-260-11 o CONTACT, IL-S FEMALE AWG24-28	⚠1-562-210-11 o CONTACT, FEMALE AWG18-22  CN2002 (to SWITCHING REGULATOR)  1-562-254-00 o HOUSING 4P
N265	(to DC-57P) 1-562-258-00 o HOUSING 10P 1-562-260-11 o CONTACT, IL-S FEMALE AWG24-28	1-562-260-11 o CONTACT, IL-S FELAME AWG24-28
N309	(to SST-2AP) 1-506-482-11 s HOUSING 3P 1-563-088-11 o CONTACT, FEMALE AWG24-30	
N321	(to SST-2AP) 1-562-258-00 o HOUSING 10P 1-562-260-11 o CONTACT, IL-S FEMALE AWG24-28	
<b>V331</b>	(to CN-551P) 1-562-147-11 o HOUSING 2P 1-563-088-11 o CONTACT, FEMALE AWG 24-30	
<b>V332</b>	(to CN-551P) 1-562-149-11 o HOUSING 4P 1-563-088-11 o CONTACT, FEMALE AWG 24-30	
<b>V333</b>	(to CN-551P) 1-562-150-11 o HOUSING 5P 1-563-088-11 o CONTACT, FEMALE AWG 24-30	
1334	(to CN-551P) 1-562-147-11 o HOUSING 2P 1-563-088-11 o CONTACT, FEMALE AWG 24-30	

1341

(to CN-551P)

# 14-4. PACKING MATERIALS AND ACCESSORIES

## 14-5. OPTIONAL FIXTURES

Ref. No. or Q'ty Part No. SP Description Y-2031-001-1 o CLEANING FLUID J-6080-824-A o FWD, REV TAKE UP TORQUE CASSETTE J-6080-825-A o MODE SELECTOR J-6080-826-A o No.6 GUIDE LOCK SCREWDRIVER J-6080-827-A O DIAL TENSION GAUGE J-6080-831-A O TENSION MEASUREMENT REEL J-6080-832-A O TENSION MEASUREMENT REEL J-6080-840-A o SMALL ADJUSTMENT MIRROR J-6080-883-A o RF/SWP CONNECTOR J-6080-891-A o TRACK SHIFT TOOL J-6257-460-A o UPPER DRUM REPLACEMENT TOOL J-6257-560-A O S-TENSION ADJUSTMENT TOOL
J-6257-610-A O NO.10 GEAR PHASE TOOL J-6268-660-A o EX-311 (EXTENSION BOARD) J-6269-000-A o REC HEAD PB HARNESS 3-703-375-06 o PARALLEL PIN 7-700-766-01 o HEXAGONAL SCREWDRIVER 7-741-900-53 o WIPING CLOTH 8-967-992-17 o ALIGNMENT TAPE, WR2-3CS 8-967-995-07 o ALIGNMENT TAPE, WR5-1CP 8-967-995-17 o ALIGNMENT TAPE, WR5-6C 8-967-995-18 o ALIGNMENT TAPE, WR5-7CE 8-967-995-47 o ALIGNMENT TAPE, WR5-5CSP 8-967-995-48 o ALIGNMENT TAPE, WR5-8CSE 8-967-995-57 o ALIGNMENT TAPE, WR5-8CLE COMMERCIALLY SOLD HEAD DEGAUSSER